



## Bulletin d'analyse des échantillons: BD04381 - BD04388

Référence du Laboratoire: 2016-07-27-002-ES

Adresse destinataire

Requérant: **Mme Nora Welschbillig**

Reçu le: **27/07/2016**

Début de l'analyse: **27/07/2016**

Objet de l'analyse: **contr. affluents**

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Ce rapport comporte **34** pages et ne peut être reproduit partiellement sans accord explicite du Laboratoire.

Les résultats ne se rapportent qu'aux objets soumis à l'analyse.

### Lexique:

|      |                                    |
|------|------------------------------------|
| #    | méthode sous accréditation         |
| §    | valeur-guide                       |
| S    | paramètre mesuré en sous-traitance |
| n.d. | paramètre non déterminé            |
| v.c. | voir commentaire                   |





|                         |                |                                                         |
|-------------------------|----------------|---------------------------------------------------------|
| Votre référence         | L112010A03-7   | SURE - pont Misère - Feschleeder                        |
| Nature de l'échantillon | eau de surface |                                                         |
| prélevé le              | 27/07/2016     | par SEBES échantillonnage hors accréditation - ponctuel |
| N° échantillon          | BD04381        | date de début des analyses 27/07/2016                   |

| PARAMETRE                                       | Note | Méthodes d'analyse | RESULTAT   | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|--------------------|------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                    |            |        |                     |
| Heure du prélèvement                            |      |                    | 10:29      | hh:mm  |                     |
| Météo                                           |      |                    | ensoleillé |        |                     |
| Température-air                                 |      | SOP 022            | 15         | °C     |                     |
| Aspect de l'échantillon                         |      |                    | sale       |        |                     |
| Turbidité                                       |      | ISO 7027           | 16         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4       | 19.6       | °C     |                     |
| pH                                              |      | ISO 10523          | 7.8        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888           | 158        | µS/cm  | ;                   |
| Oxygène dissous                                 |      | ISO 17289          | 7.2        | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne    | 73         | %      | ;                   |
| <b>Physico-Chimie</b>                           |      |                    |            |        |                     |
| Alcalinité                                      | #    | ISO 9963-1         | 0.8        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1         | 3.8        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)   | 5.3        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1         | 0.20       | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777           | 0.09       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878           | 0.04       | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878           | 0.10       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1        | 16         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1        | 14         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1        | 10         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911          | 13         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911          | 5.0        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911          | 3.4        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911          | 9.2        | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2       | 2.2        | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260       | 3.3        | mg/l   |                     |
| DOC                                             | #    | ISO 8245           | 3.6        | mg/l   |                     |
| TOC                                             | #    | ISO 8245           | 3.9        | mg/l   |                     |



## Métaux Dissous

| métaux dissous par ICP-MS | # |               |         |      |  |
|---------------------------|---|---------------|---------|------|--|
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l |  |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |  |
| Arsenic dissous           | # | ISO 17294-1/2 | 0.0007  | mg/l |  |
| Baryum dissous            | # | ISO 17294-1/2 | 0.017   | mg/l |  |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l |  |
| Bore dissous              | # | ISO 17294-1/2 | 0.011   | mg/l |  |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |  |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |  |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0003  | mg/l |  |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0012  | mg/l |  |
| Fer dissous               | # | ISO 17294-1/2 | 0.38    | mg/l |  |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.093   | mg/l |  |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l |  |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l |  |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l |  |
| Silicium dissous          | # | ISO 17294-1/2 | 2.88    | mg/l |  |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |  |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0006  | mg/l |  |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l |  |

## Métaux Totaux

|                          |   |               |             |      |  |
|--------------------------|---|---------------|-------------|------|--|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |  |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l |  |
| métaux totaux par ICP-MS | # |               |             |      |  |
| Aluminium                | # | ISO 17294-1/2 | 0.34        | mg/l |  |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l |  |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l |  |
| Baryum                   | # | ISO 17294-1/2 | 0.019       | mg/l |  |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l |  |
| Bore                     | # | ISO 17294-1/2 | <0.005      | mg/l |  |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l |  |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l |  |
| Cobalt                   | # | ISO 17294-1/2 | 0.0004      | mg/l |  |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l |  |
| Fer                      | # | ISO 17294-1/2 | 0.87        | mg/l |  |
| Manganèse                | # | ISO 17294-1/2 | 0.119       | mg/l |  |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l |  |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l |  |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l |  |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.48    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0011  | mg/l |
| Zinc     | # | ISO 17294-1/2 | 0.016   | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | <25 | ng/l |
| AMPA                  | ISO 16308    | 77  | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <10 | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | <25 | ng/l |
| Haloxypop             | DIN 38407-35 | <25 | ng/l |
| Haloxypop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |



|                                     |              |      |      |
|-------------------------------------|--------------|------|------|
| Mecoprop                            | DIN 38407-35 | <5   | ng/l |
| Metazachlor                         | DIN 38407-35 | <25  | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 120  | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | <25  | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25  | ng/l |
| Metolachlor                         | DIN 38407-35 | <25  | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | <25  | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25  | ng/l |
| Monuron                             | DIN 38407-35 | <25  | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d. | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25  | ng/l |
| Prochloraz                          | DIN 38407-35 | <25  | ng/l |
| Propachlor                          | DIN 38407-35 | <25  | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25  | ng/l |
| Quinmerac                           | DIN 38407-35 | <25  | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25  | ng/l |
| Simazine                            | DIN 38407-35 | <25  | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d. | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25  | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d. | ng/l |
| Terbutylazine                       | DIN 38407-35 | <25  | ng/l |
| Terbutylazine-desethyl              | DIN 38407-35 | <25  | ng/l |
| <b>MEDICAMENTS par LCMSMS</b>       |              |      |      |
| Carbamazepin                        | DIN 38407-35 | <25  | ng/l |
| Diclofenac (free acid)              | DIN 38407-35 | <25  | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25  | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25  | ng/l |
| Lidocaine                           | DIN 38407-35 | <25  | ng/l |
| <b>Biochimie</b>                    |              |      |      |
| Cote DBO-5 (IPO)                    | 999          | 4    |      |
| Cote NH4 (IPO)                      | 999          | 4    |      |
| Cote NO2 (IPO)                      | 999          | 3    |      |
| Cote o-PO4 (IPO)                    | 999          | 4    |      |
| Indice de pollution organique (IPO) | 999          | 3.8  |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



|                         |                |                                                         |
|-------------------------|----------------|---------------------------------------------------------|
| Votre référence         | L112013A01     | DIRBECH - amont Grondmillen                             |
| Nature de l'échantillon | eau de surface |                                                         |
| prélevé le              | 27/07/2016     | par SEBES échantillonnage hors accréditation - ponctuel |
| N° échantillon          | BD04382        | date de début des analyses 27/07/2016                   |

| PARAMETRE                                       | Note | Méthodes d'analyse | RESULTAT   | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|--------------------|------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                    |            |        |                     |
| Heure du prélèvement                            |      |                    | 08:44      | hh:mm  |                     |
| Météo                                           |      |                    | ensoleillé |        |                     |
| Température-air                                 |      | SOP 022            | 14         | °C     |                     |
| Aspect de l'échantillon                         |      |                    | propre     |        |                     |
| Turbidité                                       |      | ISO 7027           | 5.3        | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4       | 14.3       | °C     |                     |
| pH                                              |      | ISO 10523          | 7.9        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888           | 180        | µS/cm  | !                   |
| Oxygène dissous                                 |      | ISO 17289          | 8.9        | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne    | 87         | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                    |            |        |                     |
| Alcalinité                                      | #    | ISO 9963-1         | 0.6        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1         | 3.0        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)   | 6.4        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1         | <0.05      | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777           | 0.01       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878           | 0.04       | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878           | 0.04       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1        | 22         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1        | 29         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1        | 14         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911          | 15         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911          | 6.4        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911          | 3.4        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911          | 13         | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2       | 0.69       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260       | 7.0        | mg/l   |                     |
| DOC                                             | #    | ISO 8245           | 2.4        | mg/l   |                     |
| TOC                                             | #    | ISO 8245           | 2.4        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |
|---------------------------|---|---------------|---------|------|
| métaux dissous par ICP-MS | # |               |         |      |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Baryum dissous            | # | ISO 17294-1/2 | 0.016   | mg/l |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l |
| Bore dissous              | # | ISO 17294-1/2 | 0.015   | mg/l |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Cobalt dissous            | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l |
| Manganèse dissous         | # | ISO 17294-1/2 | <0.005  | mg/l |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Silicium dissous          | # | ISO 17294-1/2 | 2.93    | mg/l |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0003  | mg/l |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l |

## Métaux Totaux

|                          |   |               |             |      |
|--------------------------|---|---------------|-------------|------|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l |
| métaux totaux par ICP-MS | # |               |             |      |
| Aluminium                | # | ISO 17294-1/2 | <0.05       | mg/l |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l |
| Baryum                   | # | ISO 17294-1/2 | 0.017       | mg/l |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l |
| Bore                     | # | ISO 17294-1/2 | 0.015       | mg/l |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Cobalt                   | # | ISO 17294-1/2 | <0.0001     | mg/l |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Fer                      | # | ISO 17294-1/2 | <0.05       | mg/l |
| Manganèse                | # | ISO 17294-1/2 | <0.005      | mg/l |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.17    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0004  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | 30  | ng/l |
| AMPA                  | ISO 16308    | 39  | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <10 | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | <25 | ng/l |
| Haloxypop             | DIN 38407-35 | <25 | ng/l |
| Haloxypop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |



|                                     |              |            |      |
|-------------------------------------|--------------|------------|------|
| Mecoprop                            | DIN 38407-35 | <5         | ng/l |
| Metazachlor                         | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 686        | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | 57         | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25        | ng/l |
| Metolachlor                         | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | 62         | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Monuron                             | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25        | ng/l |
| Prochloraz                          | DIN 38407-35 | <25        | ng/l |
| Propachlor                          | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25        | ng/l |
| Quinmerac                           | DIN 38407-35 | <25        | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25        | ng/l |
| Simazine                            | DIN 38407-35 | <25        | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25        | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Terbutylazine                       | DIN 38407-35 | <25        | ng/l |
| Terbutylazine-desethyl              | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS                         |              | par LCMSMS |      |
| Carbamazepin                        | DIN 38407-35 | <25        | ng/l |
| Didofenac (free acid)               | DIN 38407-35 | <25        | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25        | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25        | ng/l |
| Lidocaine                           | DIN 38407-35 | <25        | ng/l |
| <b>Biochimie</b>                    |              |            |      |
| Cote DBO-5 (IPO)                    | 999          | 5          |      |
| Cote NH4 (IPO)                      | 999          | 5          |      |
| Cote NO2 (IPO)                      | 999          | 5          |      |
| Cote o-PO4 (IPO)                    | 999          | 4          |      |
| Indice de pollution organique (IPO) | 999          | 4.8        |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



|                         |                |                                                   |                                               |  |  |
|-------------------------|----------------|---------------------------------------------------|-----------------------------------------------|--|--|
| Votre référence         | L112014A02     | NINGSERBAACH - Schéimelzerbesch - aval Neunhausen |                                               |  |  |
| Nature de l'échantillon | eau de surface |                                                   |                                               |  |  |
| prélevé le              | 27/07/2016     | par SEBES                                         | échantillonnage hors accréditation - ponctuel |  |  |
| N° échantillon          | BD04383        | date de début des analyses 27/07/2016             |                                               |  |  |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT   | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |            |        |                     |
| Heure du prélèvement                            |      |                       | 09:10      | hh:mm  |                     |
| Météo                                           |      |                       | couvert    |        |                     |
| Température-air                                 |      | SOP 022               | 16         | °C     |                     |
| Aspect de l'échantillon                         |      |                       | +/- propre |        |                     |
| Turbidité                                       |      | ISO 7027              | 9.9        | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | 15.0       | °C     |                     |
| pH                                              |      | ISO 10523             | 7.7        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | 157        | µS/cm  | !                   |
| Oxygène dissous                                 |      | ISO 17289             | 10.4       | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne       | 104        | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                       |            |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | 0.6        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | 3.1        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | 5.7        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <0.05      | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | 0.05       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | 0.04       | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878              | 0.05       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | 18         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | 26         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | 12         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | 13         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | 6.0        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | 3.1        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | 12         | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | 0.65       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | 6.2        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | 2.6        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | 2.6        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l |   |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l |   |
| Baryum dissous            | # | ISO 17294-1/2 | 0.012   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.012   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |   |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | <0.0001 | mg/l |   |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0010  | mg/l |   |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l |   |
| Manganèse dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l |   |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l |   |
| Silicium dissous          | # | ISO 17294-1/2 | 2.73    | mg/l |   |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |   |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0004  | mg/l |   |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | <0.05       | mg/l |   |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l |   |
| Baryum                   | # | ISO 17294-1/2 | 0.013       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l |   |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | <0.0001     | mg/l |   |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l |   |
| Fer                      | # | ISO 17294-1/2 | <0.05       | mg/l |   |
| Manganèse                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l |   |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l |   |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 2.94    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0005  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | 28  | ng/l |
| AMPA                  | ISO 16308    | 50  | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <10 | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | <25 | ng/l |
| Haloxifop             | DIN 38407-35 | <25 | ng/l |
| Haloxifop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |

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|                                     |              |            |      |
|-------------------------------------|--------------|------------|------|
| Mecoprop                            | DIN 38407-35 | <5         | ng/l |
| Metazachlor                         | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 829        | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | 144        | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25        | ng/l |
| Metolachlor                         | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | 63         | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Monuron                             | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25        | ng/l |
| Prochloraz                          | DIN 38407-35 | <25        | ng/l |
| Propachlor                          | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25        | ng/l |
| Quinmerac                           | DIN 38407-35 | <25        | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25        | ng/l |
| Simazine                            | DIN 38407-35 | <25        | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25        | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Terbutylazine                       | DIN 38407-35 | <25        | ng/l |
| Terbutylazine-desethyl              | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS                         |              | par LCMSMS |      |
| Carbamazepin                        | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)              | DIN 38407-35 | <25        | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25        | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25        | ng/l |
| Lidocaine                           | DIN 38407-35 | <25        | ng/l |
| <b>Biochimie</b>                    |              |            |      |
| Cote DBO-5 (IPO)                    | 999          | 5          |      |
| Cote NH4 (IPO)                      | 999          | 5          |      |
| Cote NO2 (IPO)                      | 999          | 3          |      |
| Cote o-PO4 (IPO)                    | 999          | 4          |      |
| Indice de pollution organique (IPO) | 999          | 4.3        |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



|                         |                |                                               |
|-------------------------|----------------|-----------------------------------------------|
| Votre référence         | L112020A01     | SCHWAERZERBAACH - amont emb. SURE             |
| Nature de l'échantillon | eau de surface |                                               |
| prélevé le              | 27/07/2016     | par SEBES                                     |
| N° échantillon          | BD04384        | échantillonnage hors accréditation - ponctuel |
|                         |                | date de début des analyses 27/07/2016         |

| PARAMETRE                                       | Note | Méthodes d'analyse | RESULTAT   | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|--------------------|------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                    |            |        |                     |
| Heure du prélèvement                            |      |                    | 09:32      | hh:mm  |                     |
| Météo                                           |      |                    | ensoleillé |        |                     |
| Température-air                                 |      | SOP 022            | 15         | °C     |                     |
| Aspect de l'échantillon                         |      |                    | propre     |        |                     |
| Turbidité                                       |      | ISO 7027           | 15         | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4       | 14.7       | °C     |                     |
| pH                                              |      | ISO 10523          | 7.9        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888           | 158        | µS/cm  | !                   |
| Oxygène dissous                                 |      | ISO 17289          | 9.6        | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne    | 94         | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                    |            |        |                     |
| Alcalinité                                      | #    | ISO 9963-1         | 0.7        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1         | 3.6        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)   | 5.5        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1         | <0.05      | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777           | 0.03       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878           | 0.01       | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878           | <0.03      | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1        | 18         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1        | 15         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1        | 12         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911          | 12         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911          | 6.1        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911          | 2.7        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911          | 12         | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2       | 0.63       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260       | 3.5        | mg/l   |                     |
| DOC                                             | #    | ISO 8245           | 3.8        | mg/l   |                     |
| TOC                                             | #    | ISO 8245           | 4.6        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | . |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | . |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | . |
| Baryum dissous            | # | ISO 17294-1/2 | 0.006   | mg/l | . |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | . |
| Bore dissous              | # | ISO 17294-1/2 | 0.010   | mg/l | . |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | . |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | . |
| Cobalt dissous            | # | ISO 17294-1/2 | <0.0001 | mg/l | . |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | . |
| Fer dissous               | # | ISO 17294-1/2 | 0.23    | mg/l | . |
| Manganèse dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | . |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | . |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | . |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | . |
| Silicium dissous          | # | ISO 17294-1/2 | 3.01    | mg/l | . |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | . |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0003  | mg/l | . |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | . |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | . |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.29        | mg/l | . |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | . |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | . |
| Baryum                   | # | ISO 17294-1/2 | 0.008       | mg/l | . |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | . |
| Bore                     | # | ISO 17294-1/2 | <0.005      | mg/l | . |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | . |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | . |
| Cobalt                   | # | ISO 17294-1/2 | <0.0001     | mg/l | . |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | . |
| Fer                      | # | ISO 17294-1/2 | 0.56        | mg/l | . |
| Manganèse                | # | ISO 17294-1/2 | 0.019       | mg/l | . |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | . |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | . |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | . |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.49    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0007  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | <25 | ng/l |
| AMPA                  | ISO 16308    | <25 | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <10 | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | <25 | ng/l |
| Haloxyfop             | DIN 38407-35 | <25 | ng/l |
| Haloxyfop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |

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|                                     |              |            |      |
|-------------------------------------|--------------|------------|------|
| Mecoprop                            | DIN 38407-35 | <5         | ng/l |
| Metazachlor                         | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 533        | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | 45         | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25        | ng/l |
| Metolachlor                         | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Monuron                             | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25        | ng/l |
| Prochloraz                          | DIN 38407-35 | <25        | ng/l |
| Propachlor                          | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25        | ng/l |
| Quinmerac                           | DIN 38407-35 | <25        | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25        | ng/l |
| Simazine                            | DIN 38407-35 | <25        | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25        | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Terbutylazine                       | DIN 38407-35 | <25        | ng/l |
| Terbutylazine-desethyl              | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS                         |              | par LCMSMS |      |
| Carbamazepin                        | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)              | DIN 38407-35 | <25        | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25        | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25        | ng/l |
| Lidocaine                           | DIN 38407-35 | <25        | ng/l |
| <b>Biochimie</b>                    |              |            |      |
| Cote DBO-5 (IPO)                    | 999          | 5          |      |
| Cote NH4 (IPO)                      | 999          | 5          |      |
| Cote NO2 (IPO)                      | 999          | 4          |      |
| Cote o-PO4 (IPO)                    | 999          | 5          |      |
| Indice de pollution organique (IPO) | 999          | 4.8        |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



|                         |                |                                                         |
|-------------------------|----------------|---------------------------------------------------------|
| Votre référence         | L112021A01     | BILDREFERBAACH - Neimillen                              |
| Nature de l'échantillon | eau de surface |                                                         |
| prélevé le              | 27/07/2016     | par SEBES échantillonnage hors accréditation - ponctuel |
| N° échantillon          | BD04385        | date de début des analyses 27/07/2016                   |

| PARAMETRE                                | Note | Méthodes d'analyse | RESULTAT   | Unité  | Valeur paramétrique |
|------------------------------------------|------|--------------------|------------|--------|---------------------|
| Caractéristiques mesurées sur le terrain |      |                    |            |        |                     |
| Heure du prélèvement                     |      |                    | 09:55      | hh:mm  |                     |
| Météo                                    |      |                    | ensoleillé |        |                     |
| Température-air                          |      | SOP 022            | 15         | °C     |                     |
| Aspect de l'échantillon                  |      |                    | +/- propre |        |                     |
| Turbidité                                |      | ISO 7027           | 4.9        | FNU    |                     |
| Température de l'eau                     |      | DIN 38404-C4       | 15.7       | °C     |                     |
| pH                                       |      | ISO 10523          | 7.9        |        |                     |
| Conductibilité électrique 20°C           |      | ISO 7888           | 204        | µS/cm  | !                   |
| Oxygène dissous                          |      | ISO 17289          | 9.6        | mg/l   |                     |
| Saturation en oxygène                    |      | Méthode interne    | 85         | %      | !                   |
| Physico-Chimie                           |      |                    |            |        |                     |
| Alcalinité                               | #    | ISO 9963-1         | 0.7        | mval/l |                     |
| Dureté carbonatée                        | #    | ISO 9963-1         | 3.4        | d°fr   |                     |
| Dureté totale                            | #    | calc. (ISO14911)   | 6.6        | d°fr   |                     |
| Ammonium-NH4                             | #    | ISO 7150-1         | <0.05      | mg/l   |                     |
| Nitrites-NO2                             | #    | ISO 6777           | 0.01       | mg/l   |                     |
| o-Phosphate-P                            | #    | ISO 6878           | 0.17       | mg/l   |                     |
| Phosphore total-P                        | #    | ISO 6878           | 0.18       | mg/l   |                     |
| Chlorures-Cl                             | #    | ISO 10304-1        | 18         | mg/l   |                     |
| Nitrates-NO3                             | #    | ISO 10304-1        | 33         | mg/l   |                     |
| Sulfates-SO4                             | #    | ISO 10304-1        | 15         | mg/l   |                     |
| Calcium-Ca                               | #    | ISO 14911          | 17         | mg/l   |                     |
| Magnésium-Mg                             | #    | ISO 14911          | 5.6        | mg/l   |                     |
| Potassium-K                              | #    | ISO 14911          | 6.1        | mg/l   |                     |
| Sodium-Na                                | #    | ISO 14911          | 13         | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)         | #    | ISO 5815-1/2       | 0.59       | mg/l   |                     |
| Azote total                              | #    | DIN EN 12260       | 8.1        | mg/l   |                     |
| DOC                                      | #    | ISO 8245           | 2.3        | mg/l   |                     |
| TOC                                      | #    | ISO 8245           | 2.4        | mg/l   |                     |



## Métaux Dissous

| métaux dissous par ICP-MS | # |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | 0.0006  | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.010   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.019   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 3.05    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0007  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | <0.05       | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.011       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.019       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | <0.05       | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.38    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0008  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | 28  | ng/l |
| AMPA                  | ISO 16308    | 219 | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <10 | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | 122 | ng/l |
| Haloxyfop             | DIN 38407-35 | <25 | ng/l |
| Haloxyfop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |



|                                     |              |            |      |
|-------------------------------------|--------------|------------|------|
| Mecoprop                            | DIN 38407-35 | <5         | ng/l |
| Metazachlor                         | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 198        | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | 41         | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25        | ng/l |
| Metolachlor                         | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Monuron                             | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25        | ng/l |
| Prochloraz                          | DIN 38407-35 | <25        | ng/l |
| Propachlor                          | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25        | ng/l |
| Quinmerac                           | DIN 38407-35 | <25        | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25        | ng/l |
| Simazine                            | DIN 38407-35 | <25        | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25        | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Terbutylazine                       | DIN 38407-35 | <25        | ng/l |
| Terbutylazine-desethyl              | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS                         |              | par LCMSMS |      |
| Carbamazepin                        | DIN 38407-35 | 217        | ng/l |
| Diclofenac (free acid)              | DIN 38407-35 | <25        | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25        | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25        | ng/l |
| Lidocaine                           | DIN 38407-35 | <25        | ng/l |
| <b>Biochimie</b>                    |              |            |      |
| Cote DBO-5 (IPO)                    | 999          | 5          |      |
| Cote NH4 (IPO)                      | 999          | 5          |      |
| Cote NO2 (IPO)                      | 999          | 5          |      |
| Cote o-PO4 (IPO)                    | 999          | 3          |      |
| Indice de pollution organique (IPO) | 999          | 4.5        |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



|                         |                |                                       |                                               |
|-------------------------|----------------|---------------------------------------|-----------------------------------------------|
| Votre référence         | L112022A01     | BAUSCHELBAACH - amont embouchure SURE |                                               |
| Nature de l'échantillon | eau de surface |                                       |                                               |
| prélevé le              | 27/07/2016     | par SEBES                             | échantillonnage hors accréditation - ponctuel |
| N° échantillon          | BD04386        | date de début des analyses 27/07/2016 |                                               |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT   | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |            |        |                     |
| Heure du prélèvement                            |      |                       | 10:23      | hh:mm  |                     |
| Météo                                           |      |                       | ensoleillé |        |                     |
| Température-air                                 |      | SOP 022               | 16         | °C     |                     |
| Aspect de l'échantillon                         |      |                       | propre     |        |                     |
| Turbidité                                       |      | ISO 7027              | 3.4        | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | 15.6       | °C     |                     |
| pH                                              |      | ISO 10523             | 8.0        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | 246        | µS/cm  | ;                   |
| Oxygène dissous                                 |      | ISO 17289             | 10.0       | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne       | 94         | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                       |            |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | 1.0        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | 5.1        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | 7.6        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <0.05      | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | 0.01       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | 0.26       | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878              | 0.29       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | 31         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | 21         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | 18         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | 19         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | 6.9        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | 7.4        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | 20         | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | 0.61       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | 5.1        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | 2.7        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | 2.7        | mg/l   |                     |



## Métaux Dissous

| métaux dissous par ICP-MS | # |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | 0.0010  | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.010   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.022   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0012  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 3.69    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0010  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercuré                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | <0.05       | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.010       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.023       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | <0.05       | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 4.01    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0011  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | <25 | ng/l |
| AMPA                  | ISO 16308    | 399 | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <10 | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | 102 | ng/l |
| Haloxypop             | DIN 38407-35 | <25 | ng/l |
| Haloxypop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |

cc: SYND-SEBES

longnew20151016



|                                     |              |      |      |
|-------------------------------------|--------------|------|------|
| Mecoprop                            | DIN 38407-35 | <5   | ng/l |
| Metazachlor                         | DIN 38407-35 | <25  | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 301  | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | <25  | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25  | ng/l |
| Metolachlor                         | DIN 38407-35 | <25  | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | 61   | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25  | ng/l |
| Monuron                             | DIN 38407-35 | <25  | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d. | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25  | ng/l |
| Prochloraz                          | DIN 38407-35 | <25  | ng/l |
| Propachlor                          | DIN 38407-35 | <25  | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25  | ng/l |
| Quinmerac                           | DIN 38407-35 | <25  | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25  | ng/l |
| Simazine                            | DIN 38407-35 | <25  | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d. | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25  | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d. | ng/l |
| Terbutylazine                       | DIN 38407-35 | <25  | ng/l |
| Terbutylazine-desethyl              | DIN 38407-35 | <25  | ng/l |
| MEDICAMENTS                         | par LCMSMS   |      |      |
| Carbamazepin                        | DIN 38407-35 | <25  | ng/l |
| Diclofenac (free acid)              | DIN 38407-35 | <25  | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25  | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25  | ng/l |
| Lidocaine                           | DIN 38407-35 | <25  | ng/l |
| <b>Biochimie</b>                    |              |      |      |
| Cote DBO-5 (IPO)                    | 999          | 5    |      |
| Cote NH4 (IPO)                      | 999          | 5    |      |
| Cote NO2 (IPO)                      | 999          | 5    |      |
| Cote o-PO4 (IPO)                    | 999          | 2    |      |
| Indice de pollution organique (IPO) | 999          | 4.3  |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH

cc: SYND-SEBES

longnew20151016



|                         |                |                                                         |
|-------------------------|----------------|---------------------------------------------------------|
| Votre référence         | L112029A01     | BURBICH - Arsdorf                                       |
| Nature de l'échantillon | eau de surface |                                                         |
| prélevé le              | 27/07/2016     | par SEBES échantillonnage hors accréditation - ponctuel |
| N° échantillon          | BD04387        | date de début des analyses 27/07/2016                   |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT   | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |            |        |                     |
| Heure du prélèvement                            |      |                       | 09:08      | hh:mm  |                     |
| Météo                                           |      |                       | ensoleillé |        |                     |
| Température-air                                 |      | SOP 022               | 15         | °C     |                     |
| Aspect de l'échantillon                         |      |                       | +/- propre |        |                     |
| Turbidité                                       |      | ISO 7027              | 2.9        | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | 15.6       | °C     |                     |
| pH                                              |      | ISO 10523             | 7.8        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | 245        | µS/cm  | ;                   |
| Oxygène dissous                                 |      | ISO 17289             | 9.0        | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne       | 86         | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                       |            |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | 1.0        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | 5.0        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | 7.9        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <0.05      | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | 0.04       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | 0.03       | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878              | 0.04       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | 32         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | 23         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | 13         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | 19         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | 7.7        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | 4.6        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | 20         | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | 0.59       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | 6.0        | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | 3.5        | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | 3.8        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |
|---------------------------|---|---------------|---------|------|
| métaux dissous par ICP-MS | # |               |         |      |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Baryum dissous            | # | ISO 17294-1/2 | 0.016   | mg/l |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l |
| Bore dissous              | # | ISO 17294-1/2 | 0.016   | mg/l |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Cobalt dissous            | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Fer dissous               | # | ISO 17294-1/2 | 0.12    | mg/l |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.017   | mg/l |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Silicium dissous          | # | ISO 17294-1/2 | 2.62    | mg/l |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0003  | mg/l |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l |

## Métaux Totaux

|                          |   |               |             |      |
|--------------------------|---|---------------|-------------|------|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |
| Mercuré                  | # | ISO 17852     | <0.005      | ug/l |
| métaux totaux par ICP-MS | # |               |             |      |
| Aluminium                | # | ISO 17294-1/2 | <0.05       | mg/l |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l |
| Baryum                   | # | ISO 17294-1/2 | 0.016       | mg/l |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l |
| Bore                     | # | ISO 17294-1/2 | 0.016       | mg/l |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Cobalt                   | # | ISO 17294-1/2 | <0.0001     | mg/l |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Fer                      | # | ISO 17294-1/2 | 0.22        | mg/l |
| Manganèse                | # | ISO 17294-1/2 | 0.021       | mg/l |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 2.85    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0004  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | 53  | ng/l |
| AMPA                  | ISO 16308    | <25 | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <10 | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | <25 | ng/l |
| Haloxypop             | DIN 38407-35 | <25 | ng/l |
| Haloxypop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |



|                                     |              |            |      |
|-------------------------------------|--------------|------------|------|
| Mecoprop                            | DIN 38407-35 | <5         | ng/l |
| Metazachlor                         | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 1226       | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | 190        | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25        | ng/l |
| Metolachlor                         | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | 95         | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Monuron                             | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25        | ng/l |
| Prochloraz                          | DIN 38407-35 | <25        | ng/l |
| Propachlor                          | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25        | ng/l |
| Quinmerac                           | DIN 38407-35 | <25        | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25        | ng/l |
| Simazine                            | DIN 38407-35 | <25        | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25        | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine                      | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl             | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS                         |              | par LCMSMS |      |
| Carbamazepin                        | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)              | DIN 38407-35 | <25        | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25        | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25        | ng/l |
| Lidocaine                           | DIN 38407-35 | <25        | ng/l |
| <b>Biochimie</b>                    |              |            |      |
| Cote DBO-5 (IPO)                    | 999          | 5          |      |
| Cote NH4 (IPO)                      | 999          | 5          |      |
| Cote NO2 (IPO)                      | 999          | 3          |      |
| Cote o-PO4 (IPO)                    | 999          | 4          |      |
| Indice de pollution organique (IPO) | 999          | 4.3        |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



|                         |                |                                                         |
|-------------------------|----------------|---------------------------------------------------------|
| Votre référence         | L112030A01     | MECHELBAACH - Neunhausen                                |
| Nature de l'échantillon | eau de surface |                                                         |
| prélevé le              | 27/07/2016     | par SEBES échantillonnage hors accréditation - ponctuel |
| N° échantillon          | BD04388        | date de début des analyses 27/07/2016                   |

| PARAMETRE                                       | Note | Méthodes d'analyse | RESULTAT   | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|--------------------|------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                    |            |        |                     |
| Heure du prélèvement                            |      |                    | 08:21      | hh:mm  |                     |
| Météo                                           |      |                    | ensoleillé |        |                     |
| Température-air                                 |      | SOP 022            | 13         | °C     |                     |
| Aspect de l'échantillon                         |      |                    | propre     |        |                     |
| Turbidité                                       |      | ISO 7027           | 3.3        | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4       | 13.7       | °C     |                     |
| pH                                              |      | ISO 10523          | 7.9        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888           | 194        | µS/cm  | !                   |
| Oxygène dissous                                 |      | ISO 17289          | 8.9        | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne    | 83         | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                    |            |        |                     |
| Alcalinité                                      | #    | ISO 9963-1         | 0.6        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1         | 2.8        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)   | 6.3        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1         | <0.05      | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777           | 0.02       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878           | 0.02       | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878           | <0.03      | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1        | 20         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1        | 32         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1        | 14         | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911          | 15         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911          | 6.1        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911          | 3.1        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911          | 13         | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2       | 0.53       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260       | 8.1        | mg/l   |                     |
| DOC                                             | #    | ISO 8245           | 2.2        | mg/l   |                     |
| TOC                                             | #    | ISO 8245           | 2.4        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |
|---------------------------|---|---------------|---------|------|
| métaux dissous par ICP-MS | # |               |         |      |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Baryum dissous            | # | ISO 17294-1/2 | 0.020   | mg/l |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l |
| Bore dissous              | # | ISO 17294-1/2 | 0.014   | mg/l |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Cobalt dissous            | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Cuivre dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Fer dissous               | # | ISO 17294-1/2 | 0.06    | mg/l |
| Manganèse dissous         | # | ISO 17294-1/2 | <0.005  | mg/l |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Silicium dissous          | # | ISO 17294-1/2 | 2.78    | mg/l |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0003  | mg/l |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l |

## Métaux Totaux

|                          |   |               |             |      |
|--------------------------|---|---------------|-------------|------|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |
| Mercuré                  | # | ISO 17852     | <0.005      | ug/l |
| métaux totaux par ICP-MS | # |               |             |      |
| Aluminium                | # | ISO 17294-1/2 | <0.05       | mg/l |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l |
| Baryum                   | # | ISO 17294-1/2 | 0.021       | mg/l |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l |
| Bore                     | # | ISO 17294-1/2 | 0.014       | mg/l |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Cobalt                   | # | ISO 17294-1/2 | <0.0001     | mg/l |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Fer                      | # | ISO 17294-1/2 | 0.15        | mg/l |
| Manganèse                | # | ISO 17294-1/2 | <0.005      | mg/l |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.05    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0004  | mg/l |
| Zinc     | # | ISO 17294-1/2 | 0.019   | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | 45  | ng/l |
| AMPA                  | ISO 16308    | <25 | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <10 | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | <25 | ng/l |
| Haloxypop             | DIN 38407-35 | <25 | ng/l |
| Haloxypop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |

cc: SYND-SEBES

longnew20151016



|                                     |              |            |      |
|-------------------------------------|--------------|------------|------|
| Mecoprop                            | DIN 38407-35 | <5         | ng/l |
| Metazachlor                         | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 570        | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | 42         | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25        | ng/l |
| Metolachlor                         | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | 45         | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Monuron                             | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25        | ng/l |
| Prochloraz                          | DIN 38407-35 | <25        | ng/l |
| Propachlor                          | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25        | ng/l |
| Quinmerac                           | DIN 38407-35 | <25        | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25        | ng/l |
| Simazine                            | DIN 38407-35 | <25        | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25        | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine                      | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl             | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS                         |              | par LCMSMS |      |
| Carbamazepin                        | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)              | DIN 38407-35 | <25        | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25        | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25        | ng/l |
| Lidocaine                           | DIN 38407-35 | <25        | ng/l |
| <b>Biochimie</b>                    |              |            |      |
| Cote DBO-5 (IPO)                    | 999          | 5          |      |
| Cote NH4 (IPO)                      | 999          | 5          |      |
| Cote NO2 (IPO)                      | 999          | 4          |      |
| Cote o-PO4 (IPO)                    | 999          | 4          |      |
| Indice de pollution organique (IPO) | 999          | 4.5        |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



### Appréciation:

Echantillons prélevés par vos soins.

Les résultats ne tiennent pas compte des incertitudes de mesure. Des renseignements supplémentaires sur les méthodes d'analyse et les incertitudes sont disponibles sur simple demande.

#### Informations spécifiques concernant les eaux potables:

L'appréciation concernant une eau potable se rapporte au règlement grand-ducal du 7 octobre 2002 relatif à la qualité des eaux destinées à la consommation humaine.

Les résultats bactériologiques sont à interpréter selon la norme ISO 8199:

- |     |                                                                |
|-----|----------------------------------------------------------------|
| <1  | : organismes non-détectés dans le volume étudié                |
| 1-3 | : organismes présents dans le volume étudié                    |
| 4-9 | : nombre estimatif d'organismes présents dans le volume étudié |

#### Informations spécifiques concernant les eaux de surface:

Les normes de qualité environnementale se basent sur le règlement grand-ducal du 15 janvier 2016 relatif à l'évaluation de l'état des masses d'eau de surface et sont exprimées en valeur moyenne annuelle.

Les normes suivantes sont appliquées aux échantillonnages sous accréditation:

- |             |                                                 |
|-------------|-------------------------------------------------|
| ISO 19458   | : analyses microbiologiques                     |
| ISO 5667-1  | : techniques d'échantillonnage                  |
| ISO 5667-3  | : conservation et manipulation des échantillons |
| ISO 5667-6  | : rivières et cours d'eau                       |
| ISO 5667-10 | : eaux usées                                    |

  
Responsable laboratoire

Digitally signed by  
Jerry Hoffmann  
Date: 2016.08.24  
15:02:32 +02'00'



## Bulletin d'analyse des échantillons: BD04329 - BD04336

Référence du Laboratoire: 2016-07-26-005-ES

Adresse destinataire

Requérant: **Mme Nora Welschbillig**

**Admin. de la Gestion de l'Eau  
c/o Mme Nora Welschbillig  
1, avenue du Rock'n'Roll  
L-4361 Esch/Alzette**

Reçu le: **26/07/2016**

Début de l'analyse: **26/07/2016**

Objet de l'analyse: **contr. affluents**

**Tel : 24556-1 Fax : 24556-7362**

Ce rapport comporte **34** pages et ne peut être reproduit partiellement sans accord explicite du Laboratoire.

Les résultats ne se rapportent qu'aux objets soumis à l'analyse.

### Lexique:

|      |                                    |
|------|------------------------------------|
| #    | méthode sous accréditation         |
| §    | valeur-guide                       |
| S    | paramètre mesuré en sous-traitance |
| n.d. | paramètre non déterminé            |
| v.c. | voir commentaire                   |





|                         |                |                                                         |
|-------------------------|----------------|---------------------------------------------------------|
| Votre référence         | L112018A01     | SYRBACH - aval Rommelerkräiz-LB177                      |
| Nature de l'échantillon | eau de surface |                                                         |
| prélevé le              | 26/07/2016     | par SEBES échantillonnage hors accréditation - ponctuel |
| N° échantillon          | BD04329        | date de début des analyses 26/07/2016                   |

| PARAMETRE                                       | Note | Méthodes d'analyse | RESULTAT | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|--------------------|----------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                    |          |        |                     |
| Heure du prélèvement                            |      |                    | 10:10    | hh:mm  |                     |
| Météo                                           |      |                    | pluvieux |        |                     |
| Température-air                                 |      | SOP 022            | 18       | °C     |                     |
| Aspect de l'échantillon                         |      |                    | propre   |        |                     |
| Turbidité                                       |      | ISO 7027           | 10       | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4       | 15.7     | °C     |                     |
| pH                                              |      | ISO 10523          | 7.6      |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888           | 168      | µS/cm  | :                   |
| Oxygène dissous                                 |      | ISO 17289          | 9.8      | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne    | 97       | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                    |          |        |                     |
| Alcalinité                                      | #    | ISO 9963-1         | 0.8      | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1         | 4.1      | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)   | 5.9      | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1         | 0.06     | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777           | 0.06     | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878           | 0.03     | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878           | 0.05     | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1        | 16       | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1        | 20       | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1        | 19       | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911          | 14       | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911          | 5.8      | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911          | 2.8      | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911          | 9.3      | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2       | 1.1      | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260       | 4.5      | mg/l   |                     |
| DOC                                             | #    | ISO 8245           | 2.8      | mg/l   |                     |
| TOC                                             | #    | ISO 8245           | 3.2      | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.007   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.015   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0011  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | 0.13    | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.012   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 3.55    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0004  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercuré                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.16        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.009       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.40        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.018       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.58    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0005  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | 8   | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | <25 | ng/l |
| AMPA                  | ISO 16308    | 55  | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <5  | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diffufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | <25 | ng/l |
| Haloxypop             | DIN 38407-35 | <25 | ng/l |
| Haloxypop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |

cc: SYND-SEBES

langnew20151016



|                                     |              |            |      |
|-------------------------------------|--------------|------------|------|
| Mecoprop                            | DIN 38407-35 | <5         | ng/l |
| Metazachlor                         | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 34         | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25        | ng/l |
| Metolachlor                         | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | 27         | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Monuron                             | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25        | ng/l |
| Prochloraz                          | DIN 38407-35 | <25        | ng/l |
| Propachlor                          | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25        | ng/l |
| Quinmerac                           | DIN 38407-35 | <25        | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25        | ng/l |
| Simazine                            | DIN 38407-35 | <25        | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25        | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine                      | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl             | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS                         |              | par LCMSMS |      |
| Carbamazepin                        | DIN 38407-35 | <25        | ng/l |
| Didofenac (free acid)               | DIN 38407-35 | <25        | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25        | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25        | ng/l |
| Lidocaine                           | DIN 38407-35 | <25        | ng/l |
| <b>Biochimie</b>                    |              |            |      |
| Cote DBO-5 (IPO)                    | 999          | 5          |      |
| Cote NH4 (IPO)                      | 999          | 5          |      |
| Cote NO2 (IPO)                      | 999          | 3          |      |
| Cote o-PO4 (IPO)                    | 999          | 4          |      |
| Indice de pollution organique (IPO) | 999          | 4.3        |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH

cc: SYND-SEBES

langnew20151016



|                         |                |                                               |
|-------------------------|----------------|-----------------------------------------------|
| Votre référence         | L112010A01     | SÛRE - Martelange                             |
| Nature de l'échantillon | eau de surface |                                               |
| prélevé le              | 26/07/2016     | par SEBES                                     |
| N° échantillon          | BD04330        | échantillonnage hors accréditation - ponctuel |
|                         |                | date de début des analyses 26/07/2016         |

| PARAMETRE                                       | Note | Méthodes d'analyse | RESULTAT   | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|--------------------|------------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                    |            |        |                     |
| Heure du prélèvement                            |      |                    | 11:28      | hh:mm  |                     |
| Météo                                           |      |                    | pluvieux   |        |                     |
| Température-air                                 |      | SOP 022            | 20         | °C     |                     |
| Aspect de l'échantillon                         |      |                    | +/- propre |        |                     |
| Turbidité                                       |      | ISO 7027           | 8.9        | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4       | 17.2       | °C     |                     |
| pH                                              |      | ISO 10523          | 7.6        |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888           | 140        | µS/cm  | ;                   |
| Oxygène dissous                                 |      | ISO 17289          | 9.5        | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne    | 97         | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                    |            |        |                     |
| Alcalinité                                      | #    | ISO 9963-1         | 0.6        | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1         | 3.2        | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)   | 4.6        | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1         | 0.05       | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777           | 0.04       | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878           | 0.03       | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878           | 0.05       | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1        | 15         | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1        | 14         | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1        | 9.6        | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911          | 11         | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911          | 4.6        | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911          | 2.5        | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911          | 8.0        | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2       | 0.70       | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260       | 3.2        | mg/l   |                     |
| DOC                                             | #    | ISO 8245           | 2.9        | mg/l   |                     |
| TOC                                             | #    | ISO 8245           | 3.3        | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |
|---------------------------|---|---------------|---------|------|
| métaux dissous par ICP-MS | # |               |         |      |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Arsenic dissous           | # | ISO 17294-1/2 | 0.0007  | mg/l |
| Baryum dissous            | # | ISO 17294-1/2 | 0.015   | mg/l |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l |
| Bore dissous              | # | ISO 17294-1/2 | 0.010   | mg/l |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0002  | mg/l |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0012  | mg/l |
| Fer dissous               | # | ISO 17294-1/2 | 0.25    | mg/l |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.022   | mg/l |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Silicium dissous          | # | ISO 17294-1/2 | 3.08    | mg/l |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0004  | mg/l |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l |

## Métaux Totaux

|                          |   |               |             |      |
|--------------------------|---|---------------|-------------|------|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |
| Mercuré                  | # | ISO 17852     | <0.005      | ug/l |
| métaux totaux par ICP-MS | # |               |             |      |
| Aluminium                | # | ISO 17294-1/2 | 0.14        | mg/l |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l |
| Baryum                   | # | ISO 17294-1/2 | 0.016       | mg/l |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l |
| Bore                     | # | ISO 17294-1/2 | <0.005      | mg/l |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Fer                      | # | ISO 17294-1/2 | 0.51        | mg/l |
| Manganèse                | # | ISO 17294-1/2 | 0.027       | mg/l |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.08    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0008  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | <25 | ng/l |
| AMPA                  | ISO 16308    | 44  | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <5  | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | <25 | ng/l |
| Haloxypop             | DIN 38407-35 | <25 | ng/l |
| Haloxypop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |



|                                     |              |            |      |
|-------------------------------------|--------------|------------|------|
| Mecoprop                            | DIN 38407-35 | <5         | ng/l |
| Metazachlor                         | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 85         | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25        | ng/l |
| Metolachlor                         | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | 32         | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Monuron                             | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25        | ng/l |
| Prochloraz                          | DIN 38407-35 | <25        | ng/l |
| Propachlor                          | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25        | ng/l |
| Quinmerac                           | DIN 38407-35 | <25        | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25        | ng/l |
| Simazine                            | DIN 38407-35 | <25        | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25        | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine                      | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl             | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS                         |              | par LCMSMS |      |
| Carbamazepin                        | DIN 38407-35 | <25        | ng/l |
| Didofenac (free acid)               | DIN 38407-35 | <25        | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25        | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25        | ng/l |
| Lidocaine                           | DIN 38407-35 | <25        | ng/l |
| <b>Biochimie</b>                    |              |            |      |
| Cote DBO-5 (IPO)                    | 999          | 5          |      |
| Cote NH4 (IPO)                      | 999          | 5          |      |
| Cote NO2 (IPO)                      | 999          | 3          |      |
| Cote o-PO4 (IPO)                    | 999          | 4          |      |
| Indice de pollution organique (IPO) | 999          | 4.3        |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



|                         |                |                                       |                                               |  |  |  |
|-------------------------|----------------|---------------------------------------|-----------------------------------------------|--|--|--|
| Votre référence         | L112015A01     | <b>BÉIWENERBAACH - Bavigne</b>        |                                               |  |  |  |
| Nature de l'échantillon | eau de surface |                                       |                                               |  |  |  |
| prélevé le              | 26/07/2016     | par SEBES                             | échantillonnage hors accréditation - ponctuel |  |  |  |
| N° échantillon          | BD04331        | date de début des analyses 26/07/2016 |                                               |  |  |  |

| PARAMETRE | Note | Méthodes d'analyse | RESULTAT | Unité | Valeur paramétrique |
|-----------|------|--------------------|----------|-------|---------------------|
|-----------|------|--------------------|----------|-------|---------------------|

#### Caractéristiques mesurées sur le terrain

|                                |  |                 |         |       |   |
|--------------------------------|--|-----------------|---------|-------|---|
| Heure du prélèvement           |  |                 | 09:10   | hh:mm |   |
| Météo                          |  |                 | couvert |       |   |
| Température-air                |  | SOP 022         | 17      | °C    |   |
| Aspect de l'échantillon        |  |                 | propre  |       |   |
| Turbidité                      |  | ISO 7027        | 9.1     | FNU   |   |
| Température de l'eau           |  | DIN 38404-C4    | 16.5    | °C    |   |
| pH                             |  | ISO 10523       | 7.7     |       |   |
| Conductibilité électrique 20°C |  | ISO 7888        | 154     | µS/cm | ! |
| Oxygène dissous                |  | ISO 17289       | 9.4     | mg/l  |   |
| Saturation en oxygène          |  | Méthode interne | 89      | %     | ! |

#### Physico-Chimie

|                                  |   |                  |      |        |  |
|----------------------------------|---|------------------|------|--------|--|
| Alcalinité                       | # | ISO 9963-1       | 0.8  | mval/l |  |
| Dureté carbonatée                | # | ISO 9963-1       | 4.1  | d°fr   |  |
| Dureté totale                    | # | calc. (ISO14911) | 5.3  | d°fr   |  |
| Ammonium-NH4                     | # | ISO 7150-1       | 0.05 | mg/l   |  |
| Nitrites-NO2                     | # | ISO 6777         | 0.03 | mg/l   |  |
| o-Phosphate-P                    | # | ISO 6878         | 0.03 | mg/l   |  |
| Phosphore total-P                | # | ISO 6878         | 0.05 | mg/l   |  |
| Chlorures-Cl                     | # | ISO 10304-1      | 15   | mg/l   |  |
| Nitrates-NO3                     | # | ISO 10304-1      | 13   | mg/l   |  |
| Sulfates-SO4                     | # | ISO 10304-1      | 18   | mg/l   |  |
| Calcium-Ca                       | # | ISO 14911        | 11   | mg/l   |  |
| Magnésium-Mg                     | # | ISO 14911        | 6.3  | mg/l   |  |
| Potassium-K                      | # | ISO 14911        | 2.3  | mg/l   |  |
| Sodium-Na                        | # | ISO 14911        | 9.5  | mg/l   |  |
| Demande biochim. en oxy. (DBO-5) | # | ISO 5815-1/2     | 0.74 | mg/l   |  |
| Azote total                      | # | DIN EN 12260     | 3.0  | mg/l   |  |
| DOC                              | # | ISO 8245         | 3.0  | mg/l   |  |
| TOC                              | # | ISO 8245         | 3.2  | mg/l   |  |



### Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.008   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.014   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0011  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | 0.14    | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.022   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 3.46    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0003  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

### Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercuré                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.14        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.010       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 0.39        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.027       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.41    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0005  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | <25 | ng/l |
| AMPA                  | ISO 16308    | 56  | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <5  | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | <25 | ng/l |
| Haloxyfop             | DIN 38407-35 | <25 | ng/l |
| Haloxyfop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |

cc: SYND-SEBES

longnew20151016



|                                     |              |            |      |
|-------------------------------------|--------------|------------|------|
| Mecoprop                            | DIN 38407-35 | <5         | ng/l |
| Metazachlor                         | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | <25        | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25        | ng/l |
| Metolachlor                         | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Monuron                             | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25        | ng/l |
| Prochloraz                          | DIN 38407-35 | <25        | ng/l |
| Propachlor                          | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25        | ng/l |
| Quinmerac                           | DIN 38407-35 | <25        | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25        | ng/l |
| Simazine                            | DIN 38407-35 | <25        | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25        | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine                      | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl             | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS                         |              | par LCMSMS |      |
| Carbamazepin                        | DIN 38407-35 | <25        | ng/l |
| Didofenac (free acid)               | DIN 38407-35 | <25        | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25        | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25        | ng/l |
| Lidocaine                           | DIN 38407-35 | <25        | ng/l |
| <b>Biochimie</b>                    |              |            |      |
| Cote DBO-5 (IPO)                    | 999          | 5          |      |
| Cote NH4 (IPO)                      | 999          | 5          |      |
| Cote NO2 (IPO)                      | 999          | 4          |      |
| Cote o-PO4 (IPO)                    | 999          | 4          |      |
| Indice de pollution organique (IPO) | 999          | 4.5        |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



|                         |                |                                                         |
|-------------------------|----------------|---------------------------------------------------------|
| Votre référence         | L112019A01     | FROUMICHT - Mansgröndschen-amont emb.SURE               |
| Nature de l'échantillon | eau de surface |                                                         |
| prélevé le              | 26/07/2016     | par SEBES échantillonnage hors accréditation - ponctuel |
| N° échantillon          | BD04332        | date de début des analyses 26/07/2016                   |

| PARAMETRE                                       | Note | Méthodes d'analyse | RESULTAT | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|--------------------|----------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                    |          |        |                     |
| Heure du prélèvement                            |      |                    | 11:05    | hh:mm  |                     |
| Météo                                           |      |                    | pluvieux |        |                     |
| Température-air                                 |      | SOP 022            | 19       | °C     |                     |
| Aspect de l'échantillon                         |      |                    | propre   |        |                     |
| Turbidité                                       |      | ISO 7027           | 7.8      | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4       | 15.3     | °C     |                     |
| pH                                              |      | ISO 10523          | 7.5      |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888           | 164      | µS/cm  | !                   |
| Oxygène dissous                                 |      | ISO 17289          | 9.9      | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne    | 90       | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                    |          |        |                     |
| Alcalinité                                      | #    | ISO 9963-1         | 0.7      | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1         | 3.4      | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)   | 5.1      | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1         | 0.08     | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777           | 0.14     | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878           | 0.09     | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878           | 0.12     | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1        | 14       | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1        | 21       | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1        | 21       | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911          | 13       | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911          | 4.6      | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911          | 4.8      | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911          | 9.4      | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2       | 1.2      | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260       | 5.1      | mg/l   |                     |
| DOC                                             | #    | ISO 8245           | 3.2      | mg/l   |                     |
| TOC                                             | #    | ISO 8245           | 3.6      | mg/l   |                     |



### Métaux Dissous

|                           |   |               |         |      |
|---------------------------|---|---------------|---------|------|
| métaux dissous par ICP-MS | # |               |         |      |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Arsenic dissous           | # | ISO 17294-1/2 | 0.0008  | mg/l |
| Baryum dissous            | # | ISO 17294-1/2 | 0.016   | mg/l |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l |
| Bore dissous              | # | ISO 17294-1/2 | 0.018   | mg/l |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0002  | mg/l |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0016  | mg/l |
| Fer dissous               | # | ISO 17294-1/2 | 0.07    | mg/l |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.010   | mg/l |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Silicium dissous          | # | ISO 17294-1/2 | 3.16    | mg/l |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0006  | mg/l |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l |

### Métaux Totaux

|                          |   |               |             |      |
|--------------------------|---|---------------|-------------|------|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |
| Mercuré                  | # | ISO 17852     | <0.005      | ug/l |
| métaux totaux par ICP-MS | # |               |             |      |
| Aluminium                | # | ISO 17294-1/2 | <0.05       | mg/l |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l |
| Baryum                   | # | ISO 17294-1/2 | 0.017       | mg/l |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l |
| Bore                     | # | ISO 17294-1/2 | <0.005      | mg/l |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Fer                      | # | ISO 17294-1/2 | 0.23        | mg/l |
| Manganèse                | # | ISO 17294-1/2 | 0.016       | mg/l |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.04    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0008  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | <25 | ng/l |
| AMPA                  | ISO 16308    | 186 | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <5  | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | 29  | ng/l |
| Haloxyfop             | DIN 38407-35 | <25 | ng/l |
| Haloxyfop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |



|                                     |              |      |      |
|-------------------------------------|--------------|------|------|
| Mecoprop                            | DIN 38407-35 | <5   | ng/l |
| Metazachlor                         | DIN 38407-35 | <25  | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 516  | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | 46   | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25  | ng/l |
| Metolachlor                         | DIN 38407-35 | <25  | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | 26   | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25  | ng/l |
| Monuron                             | DIN 38407-35 | <25  | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d. | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25  | ng/l |
| Prochloraz                          | DIN 38407-35 | <25  | ng/l |
| Propachlor                          | DIN 38407-35 | <25  | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25  | ng/l |
| Quinmerac                           | DIN 38407-35 | <25  | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25  | ng/l |
| Simazine                            | DIN 38407-35 | <25  | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d. | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25  | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d. | ng/l |
| Terbuthylazine                      | DIN 38407-35 | <25  | ng/l |
| Terbuthylazine-desethyl             | DIN 38407-35 | <25  | ng/l |
| MEDICAMENTS                         | par LCMSMS   |      |      |
| Carbamazepin                        | DIN 38407-35 | <25  | ng/l |
| Diclofenac (free acid)              | DIN 38407-35 | <25  | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25  | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25  | ng/l |
| Lidocaine                           | DIN 38407-35 | <25  | ng/l |
| <b>Biochimie</b>                    |              |      |      |
| Cote DBO-5 (IPO)                    | 999          | 5    |      |
| Cote NH4 (IPO)                      | 999          | 5    |      |
| Cote NO2 (IPO)                      | 999          | 3    |      |
| Cote o-PO4 (IPO)                    | 999          | 3    |      |
| Indice de pollution organique (IPO) | 999          | 4.0  |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



|                         |                |                                               |                                               |  |            |
|-------------------------|----------------|-----------------------------------------------|-----------------------------------------------|--|------------|
| Votre référence         | L112023A01     | HAMICHTERBAACH - Fuussekaul - amont emb. SURE |                                               |  |            |
| Nature de l'échantillon | eau de surface |                                               |                                               |  |            |
| prélevé le              | 26/07/2016     | par SEBES                                     | échantillonnage hors accréditation - ponctuel |  |            |
| N° échantillon          | BD04333        | date de début des analyses                    |                                               |  | 26/07/2016 |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|----------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |          |        |                     |
| Heure du prélèvement                            |      |                       | 09:42    | hh:mm  |                     |
| Météo                                           |      |                       | pluvieux |        |                     |
| Température-air                                 |      | SOP 022               | 18       | °C     |                     |
| Aspect de l'échantillon                         |      |                       | propre   |        |                     |
| Turbidité                                       |      | ISO 7027              | 3.4      | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | 15.3     | °C     |                     |
| pH                                              |      | ISO 10523             | 7.8      |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | 234      | µS/cm  | ;                   |
| Oxygène dissous                                 |      | ISO 17289             | 9.6      | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne       | 83       | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                       |          |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | 0.9      | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | 4.7      | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | 7.3      | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | <0.05    | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | 0.01     | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | 0.05     | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878              | 0.06     | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | 28       | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | 25       | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | 16       | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | 17       | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | 7.4      | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | 3.6      | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | 17       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | 0.49     | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | 5.9      | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | 2.1      | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | 2.3      | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |
|---------------------------|---|---------------|---------|------|
| métaux dissous par ICP-MS | # |               |         |      |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Baryum dissous            | # | ISO 17294-1/2 | 0.008   | mg/l |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l |
| Bore dissous              | # | ISO 17294-1/2 | 0.018   | mg/l |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0002  | mg/l |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0010  | mg/l |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.006   | mg/l |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l |
| Silicium dissous          | # | ISO 17294-1/2 | 3.57    | mg/l |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0003  | mg/l |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l |

## Métaux Totaux

|                          |   |               |             |      |
|--------------------------|---|---------------|-------------|------|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |
| Mercuré                  | # | ISO 17852     | <0.005      | ug/l |
| métaux totaux par ICP-MS | # |               |             |      |
| Aluminium                | # | ISO 17294-1/2 | <0.05       | mg/l |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l |
| Baryum                   | # | ISO 17294-1/2 | 0.009       | mg/l |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l |
| Bore                     | # | ISO 17294-1/2 | <0.005      | mg/l |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Cobalt                   | # | ISO 17294-1/2 | <0.0001     | mg/l |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l |
| Fer                      | # | ISO 17294-1/2 | <0.05       | mg/l |
| Manganèse                | # | ISO 17294-1/2 | <0.005      | mg/l |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 3.40    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0005  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | <25 | ng/l |
| AMPA                  | ISO 16308    | 35  | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <5  | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | <25 | ng/l |
| Haloxypop             | DIN 38407-35 | <25 | ng/l |
| Haloxypop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |

cc: SYND-SEBES

longnew20151016



|                                     |              |            |      |
|-------------------------------------|--------------|------------|------|
| Mecoprop                            | DIN 38407-35 | <5         | ng/l |
| Metazachlor                         | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 111        | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25        | ng/l |
| Metolachlor                         | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | 80         | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Monuron                             | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25        | ng/l |
| Prochloraz                          | DIN 38407-35 | <25        | ng/l |
| Propachlor                          | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25        | ng/l |
| Quinmerac                           | DIN 38407-35 | <25        | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25        | ng/l |
| Simazine                            | DIN 38407-35 | <25        | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25        | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Terbutylazine                       | DIN 38407-35 | <25        | ng/l |
| Terbutylazine-desethyl              | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS                         |              | par LCMSMS |      |
| Carbamazepin                        | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)              | DIN 38407-35 | <25        | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25        | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25        | ng/l |
| Lidocaine                           | DIN 38407-35 | <25        | ng/l |
| <b>Biochimie</b>                    |              |            |      |
| Cote DBO-5 (IPO)                    | 999          | 5          |      |
| Cote NH4 (IPO)                      | 999          | 5          |      |
| Cote NO2 (IPO)                      | 999          | 5          |      |
| Cote o-PO4 (IPO)                    | 999          | 4          |      |
| Indice de pollution organique (IPO) | 999          | 4.8        |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



|                         |                |                                       |                                               |  |
|-------------------------|----------------|---------------------------------------|-----------------------------------------------|--|
| Votre référence         | L112024A01     | BEMICHT - Huuscht, près de Liefrange  |                                               |  |
| Nature de l'échantillon | eau de surface |                                       |                                               |  |
| prélevé le              | 26/07/2016     | par SEBES                             | échantillonnage hors accréditation - ponctuel |  |
| N° échantillon          | BD04334        | date de début des analyses 26/07/2016 |                                               |  |

| PARAMETRE                                       | Note | Méthodes d'analyse | RESULTAT | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|--------------------|----------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                    |          |        |                     |
| Heure du prélèvement                            |      |                    | 08:12    | hh:mm  |                     |
| Météo                                           |      |                    | couvert  |        |                     |
| Température-air                                 |      | SOP 022            | 17.1     | °C     |                     |
| Aspect de l'échantillon                         |      |                    | sale     |        |                     |
| Turbidité                                       |      | ISO 7027           | 34       | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4       | 17.3     | °C     |                     |
| pH                                              |      | ISO 10523          | 7.9      |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888           | 345      | µS/cm  | !                   |
| Oxygène dissous                                 |      | ISO 17289          | 9.4      | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne    | 97       | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                    |          |        |                     |
| Alcalinité                                      | #    | ISO 9963-1         | 2.1      | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1         | 10.4     | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)   | 11.9     | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1         | 0.07     | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777           | 0.08     | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878           | 0.08     | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878           | 0.16     | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1        | 42       | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1        | 15       | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1        | 9.3      | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911          | 23       | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911          | 15       | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911          | 4.7      | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911          | 25       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2       | 1.1      | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260       | 3.5      | mg/l   |                     |
| DOC                                             | #    | ISO 8245           | 4.6      | mg/l   |                     |
| TOC                                             | #    | ISO 8245           | 5.0      | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | : |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | 0.0009  | mg/l | : |
| Baryum dissous            | # | ISO 17294-1/2 | 0.014   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.028   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | : |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0003  | mg/l | : |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0012  | mg/l | : |
| Fer dissous               | # | ISO 17294-1/2 | 0.36    | mg/l | : |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.017   | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | : |
| Silicium dissous          | # | ISO 17294-1/2 | 4.73    | mg/l | : |
| Uranium dissous           | # | ISO 17294-1/2 | 0.0001  | mg/l | : |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0002  | mg/l | : |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercuré                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.38        | mg/l | : |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | 0.0012      | mg/l | : |
| Baryum                   | # | ISO 17294-1/2 | 0.021       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.020       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | : |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0005      | mg/l | : |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Fer                      | # | ISO 17294-1/2 | 1.45        | mg/l | : |
| Manganèse                | # | ISO 17294-1/2 | 0.069       | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | : |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | : |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 4.98    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0010  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | <25 | ng/l |
| AMPA                  | ISO 16308    | 338 | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <5  | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | 27  | ng/l |
| Haloxypop             | DIN 38407-35 | <25 | ng/l |
| Haloxypop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |

cc: SYND-SEBES

longnew20151016



|                                     |              |            |      |
|-------------------------------------|--------------|------------|------|
| Mecoprop                            | DIN 38407-35 | <5         | ng/l |
| Metazachlor                         | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | <25        | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25        | ng/l |
| Metolachlor                         | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Monuron                             | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid                          | DIN 38407-35 | 103        | ng/l |
| Prochloraz                          | DIN 38407-35 | <25        | ng/l |
| Propachlor                          | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25        | ng/l |
| Quinmerac                           | DIN 38407-35 | <25        | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25        | ng/l |
| Simazine                            | DIN 38407-35 | <25        | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25        | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Terbutylazine                       | DIN 38407-35 | <25        | ng/l |
| Terbutylazine-desethyl              | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS                         |              | par LCMSMS |      |
| Carbamazepin                        | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)              | DIN 38407-35 | 63         | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25        | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25        | ng/l |
| Lidocaine                           | DIN 38407-35 | <25        | ng/l |
| <b>Biochimie</b>                    |              |            |      |
| Cote DBO-5 (IPO)                    | 999          | 5          |      |
| Cote NH4 (IPO)                      | 999          | 5          |      |
| Cote NO2 (IPO)                      | 999          | 3          |      |
| Cote o-PO4 (IPO)                    | 999          | 3          |      |
| Indice de pollution organique (IPO) | 999          | 4.0        |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



|                         |                |                                             |                                               |
|-------------------------|----------------|---------------------------------------------|-----------------------------------------------|
| Votre référence         | L112025A01     | LAANGEGRONN - Haardschleedchen-aval Bavigne |                                               |
| Nature de l'échantillon | eau de surface |                                             |                                               |
| prélevé le              | 26/07/2016     | par SEBES                                   | échantillonnage hors accréditation - ponctuel |
| N° échantillon          | BD04335        | date de début des analyses 26/07/2016       |                                               |

| PARAMETRE                                       | Note | Méthodes<br>d'analyse | RESULTAT | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|-----------------------|----------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                       |          |        |                     |
| Heure du prélèvement                            |      |                       | 08:46    | hh:mm  |                     |
| Météo                                           |      |                       | couvert  |        |                     |
| Température-air                                 |      | SOP 022               | 17       | °C     |                     |
| Aspect de l'échantillon                         |      |                       | propre   |        |                     |
| Turbidité                                       |      | ISO 7027              | 13       | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4          | 16.3     | °C     |                     |
| pH                                              |      | ISO 10523             | 7.7      |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888              | 240      | µS/cm  | ;                   |
| Oxygène dissous                                 |      | ISO 17289             | 9.8      | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne       | 89       | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                       |          |        |                     |
| Alcalinité                                      | #    | ISO 9963-1            | 1.7      | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1            | 8.3      | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)      | 9.7      | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1            | 0.05     | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777              | 0.03     | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878              | 0.01     | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878              | 0.03     | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1           | 10       | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1           | 9.9      | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1           | 17       | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911             | 19       | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911             | 12       | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911             | 5.3      | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911             | 8.1      | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2          | <0.50    | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260          | 2.4      | mg/l   |                     |
| DOC                                             | #    | ISO 8245              | 4.9      | mg/l   |                     |
| TOC                                             | #    | ISO 8245              | 5.3      | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l | . |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | . |
| Arsenic dissous           | # | ISO 17294-1/2 | <0.0005 | mg/l | . |
| Baryum dissous            | # | ISO 17294-1/2 | 0.012   | mg/l | . |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | . |
| Bore dissous              | # | ISO 17294-1/2 | 0.027   | mg/l | . |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | . |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | . |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0003  | mg/l | . |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0015  | mg/l | . |
| Fer dissous               | # | ISO 17294-1/2 | 0.12    | mg/l | . |
| Manganèse dissous         | # | ISO 17294-1/2 | 0.016   | mg/l | . |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | . |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l | . |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l | . |
| Silicium dissous          | # | ISO 17294-1/2 | 4.20    | mg/l | . |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l | . |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0002  | mg/l | . |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | . |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | . |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | 0.18        | mg/l | . |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | . |
| Arsenic                  | # | ISO 17294-1/2 | <0.0005     | mg/l | . |
| Baryum                   | # | ISO 17294-1/2 | 0.014       | mg/l | . |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | . |
| Bore                     | # | ISO 17294-1/2 | 0.019       | mg/l | . |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l | . |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | . |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l | . |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l | . |
| Fer                      | # | ISO 17294-1/2 | 0.46        | mg/l | . |
| Manganèse                | # | ISO 17294-1/2 | 0.025       | mg/l | . |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | . |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l | . |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l | . |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 4.19    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0005  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | <25 | ng/l |
| AMPA                  | ISO 16308    | <25 | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | <5  | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | <25 | ng/l |
| Haloxypop             | DIN 38407-35 | <25 | ng/l |
| Haloxypop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |



|                                     |              |            |      |
|-------------------------------------|--------------|------------|------|
| Mecoprop                            | DIN 38407-35 | <5         | ng/l |
| Metazachlor                         | DIN 38407-35 | <25        | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | <25        | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25        | ng/l |
| Metolachlor                         | DIN 38407-35 | <25        | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | <25        | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25        | ng/l |
| Monuron                             | DIN 38407-35 | <25        | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d.       | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25        | ng/l |
| Prochloraz                          | DIN 38407-35 | <25        | ng/l |
| Propachlor                          | DIN 38407-35 | <25        | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25        | ng/l |
| Quinmerac                           | DIN 38407-35 | <25        | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25        | ng/l |
| Simazine                            | DIN 38407-35 | <25        | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25        | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d.       | ng/l |
| Terbuthylazine                      | DIN 38407-35 | <25        | ng/l |
| Terbuthylazine-desethyl             | DIN 38407-35 | <25        | ng/l |
| MEDICAMENTS                         |              | par LCMSMS |      |
| Carbamazepin                        | DIN 38407-35 | <25        | ng/l |
| Diclofenac (free acid)              | DIN 38407-35 | <25        | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25        | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25        | ng/l |
| Lidocaine                           | DIN 38407-35 | <25        | ng/l |
| <b>Biochimie</b>                    |              |            |      |
| Cote DBO-5 (IPO)                    | 999          | 5          |      |
| Cote NH4 (IPO)                      | 999          | 5          |      |
| Cote NO2 (IPO)                      | 999          | 4          |      |
| Cote o-PO4 (IPO)                    | 999          | 5          |      |
| Indice de pollution organique (IPO) | 999          | 4.8        |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



|                         |                |                                                         |
|-------------------------|----------------|---------------------------------------------------------|
| Votre référence         | L112027A01     | BELLERBAACH - Bauscheltermillen                         |
| Nature de l'échantillon | eau de surface |                                                         |
| prélevé le              | 26/07/2016     | par SEBES échantillonnage hors accréditation - ponctuel |
| N° échantillon          | BD04336        | date de début des analyses 26/07/2016                   |

| PARAMETRE                                       | Note | Méthodes d'analyse | RESULTAT | Unité  | Valeur paramétrique |
|-------------------------------------------------|------|--------------------|----------|--------|---------------------|
| <b>Caractéristiques mesurées sur le terrain</b> |      |                    |          |        |                     |
| Heure du prélèvement                            |      |                    | 10:17    | hh:mm  |                     |
| Météo                                           |      |                    | pluvieux |        |                     |
| Température-air                                 |      | SOP 022            | 18       | °C     |                     |
| Aspect de l'échantillon                         |      |                    | propre   |        |                     |
| Turbidité                                       |      | ISO 7027           | 3.0      | FNU    |                     |
| Température de l'eau                            |      | DIN 38404-C4       | 15.6     | °C     |                     |
| pH                                              |      | ISO 10523          | 7.8      |        |                     |
| Conductibilité électrique 20°C                  |      | ISO 7888           | 278      | µS/cm  | !                   |
| Oxygène dissous                                 |      | ISO 17289          | 8.2      | mg/l   |                     |
| Saturation en oxygène                           |      | Méthode interne    | 89       | %      | !                   |
| <b>Physico-Chimie</b>                           |      |                    |          |        |                     |
| Alcalinité                                      | #    | ISO 9963-1         | 1.1      | mval/l |                     |
| Dureté carbonatée                               | #    | ISO 9963-1         | 5.5      | d°fr   |                     |
| Dureté totale                                   | #    | calc. (ISO14911)   | 7.5      | d°fr   |                     |
| Ammonium-NH4                                    | #    | ISO 7150-1         | <0.05    | mg/l   |                     |
| Nitrites-NO2                                    | #    | ISO 6777           | <0.01    | mg/l   |                     |
| o-Phosphate-P                                   | #    | ISO 6878           | 0.50     | mg/l   |                     |
| Phosphore total-P                               | #    | ISO 6878           | 0.53     | mg/l   |                     |
| Chlorures-Cl                                    | #    | ISO 10304-1        | 28       | mg/l   |                     |
| Nitrates-NO3                                    | #    | ISO 10304-1        | 30       | mg/l   |                     |
| Sulfates-SO4                                    | #    | ISO 10304-1        | 23       | mg/l   |                     |
| Calcium-Ca                                      | #    | ISO 14911          | 20       | mg/l   |                     |
| Magnésium-Mg                                    | #    | ISO 14911          | 6.0      | mg/l   |                     |
| Potassium-K                                     | #    | ISO 14911          | 9.3      | mg/l   |                     |
| Sodium-Na                                       | #    | ISO 14911          | 23       | mg/l   |                     |
| Demande biochim. en oxy. (DBO-5)                | #    | ISO 5815-1/2       | 0.49     | mg/l   |                     |
| Azote total                                     | #    | DIN EN 12260       | 7.3      | mg/l   |                     |
| DOC                                             | #    | ISO 8245           | 3.5      | mg/l   |                     |
| TOC                                             | #    | ISO 8245           | 3.7      | mg/l   |                     |



## Métaux Dissous

|                           |   |               |         |      |   |
|---------------------------|---|---------------|---------|------|---|
| métaux dissous par ICP-MS | # |               |         |      |   |
| Aluminium dissous         | # | ISO 17294-1/2 | <0.05   | mg/l |   |
| Argent dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Arsenic dissous           | # | ISO 17294-1/2 | 0.0020  | mg/l |   |
| Baryum dissous            | # | ISO 17294-1/2 | 0.008   | mg/l | : |
| Béryllium dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Bore dissous              | # | ISO 17294-1/2 | 0.044   | mg/l | : |
| Cadmium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |   |
| Chrome dissous            | # | ISO 17294-1/2 | <0.001  | mg/l | : |
| Cobalt dissous            | # | ISO 17294-1/2 | 0.0001  | mg/l |   |
| Cuivre dissous            | # | ISO 17294-1/2 | 0.0020  | mg/l |   |
| Fer dissous               | # | ISO 17294-1/2 | <0.05   | mg/l |   |
| Manganèse dissous         | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Nickel dissous            | # | ISO 17294-1/2 | <0.005  | mg/l | : |
| Plomb dissous             | # | ISO 17294-1/2 | <0.0005 | mg/l |   |
| Sélénium dissous          | # | ISO 17294-1/2 | <0.0005 | mg/l |   |
| Silicium dissous          | # | ISO 17294-1/2 | 4.99    | mg/l |   |
| Uranium dissous           | # | ISO 17294-1/2 | <0.0001 | mg/l |   |
| Vanadium dissous          | # | ISO 17294-1/2 | 0.0018  | mg/l |   |
| Zinc dissous              | # | ISO 17294-1/2 | <0.005  | mg/l | : |

## Métaux Totaux

|                          |   |               |             |      |   |
|--------------------------|---|---------------|-------------|------|---|
| Type de minéralisation   | # | ISO 15587-2   | sys. ouvert |      |   |
| Mercure                  | # | ISO 17852     | <0.005      | ug/l | : |
| métaux totaux par ICP-MS | # |               |             |      |   |
| Aluminium                | # | ISO 17294-1/2 | <0.05       | mg/l |   |
| Argent                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Arsenic                  | # | ISO 17294-1/2 | 0.0020      | mg/l |   |
| Baryum                   | # | ISO 17294-1/2 | 0.008       | mg/l | : |
| Béryllium                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Bore                     | # | ISO 17294-1/2 | 0.033       | mg/l | : |
| Cadmium                  | # | ISO 17294-1/2 | <0.0001     | mg/l |   |
| Chrome                   | # | ISO 17294-1/2 | <0.001      | mg/l | : |
| Cobalt                   | # | ISO 17294-1/2 | 0.0002      | mg/l |   |
| Cuivre                   | # | ISO 17294-1/2 | <0.001      | mg/l |   |
| Fer                      | # | ISO 17294-1/2 | <0.05       | mg/l |   |
| Manganèse                | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Nickel                   | # | ISO 17294-1/2 | <0.005      | mg/l | : |
| Plomb                    | # | ISO 17294-1/2 | <0.0005     | mg/l |   |
| Sélénium                 | # | ISO 17294-1/2 | <0.0005     | mg/l |   |



métaux totaux par ICP-MS

|          | # |               |         |      |
|----------|---|---------------|---------|------|
| Silicium | # | ISO 17294-1/2 | 4.62    | mg/l |
| Uranium  | # | ISO 17294-1/2 | <0.0001 | mg/l |
| Vanadium | # | ISO 17294-1/2 | 0.0017  | mg/l |
| Zinc     | # | ISO 17294-1/2 | <0.005  | mg/l |

Organique

PESTICIDES

par LCMSMS

|                       |              |     |      |
|-----------------------|--------------|-----|------|
| 2,4-D                 | DIN 38407-35 | <5  | ng/l |
| 2,6-Dichlorobenzamide | DIN 38407-35 | 36  | ng/l |
| AMPA                  | ISO 16308    | 840 | ng/l |
| Atrazine              | DIN 38407-35 | <25 | ng/l |
| Atrazine-2-hydroxy    | DIN 38407-35 | <25 | ng/l |
| Atrazine-desethyl     | DIN 38407-35 | <25 | ng/l |
| Atrazine-desisopropyl | DIN 38407-35 | <25 | ng/l |
| Azoxystrobin          | DIN 38407-35 | <25 | ng/l |
| Bentazone             | DIN 38407-35 | 16  | ng/l |
| Chloridazon           | DIN 38407-35 | <25 | ng/l |
| Chlorotoluron         | DIN 38407-35 | <25 | ng/l |
| Cyanazine             | DIN 38407-35 | <25 | ng/l |
| Diflufenican          | DIN 38407-35 | <25 | ng/l |
| Dimethenamid          | DIN 38407-35 | <25 | ng/l |
| Dimethoate            | DIN 38407-35 | <25 | ng/l |
| Diuron                | DIN 38407-35 | <25 | ng/l |
| Epoxyconazole         | DIN 38407-35 | <25 | ng/l |
| Fluazifop-P           | DIN 38407-35 | <25 | ng/l |
| Flufenacet            | DIN 38407-35 | <25 | ng/l |
| Flurtamone            | DIN 38407-35 | <25 | ng/l |
| Flusilazole           | DIN 38407-35 | <25 | ng/l |
| Foramsulfuron         | DIN 38407-35 | <25 | ng/l |
| Glufosinate           | ISO 16308    | <25 | ng/l |
| Glyphosate            | ISO 16308    | 55  | ng/l |
| Haloxypop             | DIN 38407-35 | <25 | ng/l |
| Haloxypop-methyl      | DIN 38407-35 | <25 | ng/l |
| Isoproturon           | DIN 38407-35 | <25 | ng/l |
| Isoxaben              | DIN 38407-35 | <25 | ng/l |
| Linuron               | DIN 38407-35 | <25 | ng/l |
| MCPA                  | DIN 38407-35 | <5  | ng/l |

cc: SYND-SEBES

longnew20151016



|                                     |              |      |      |
|-------------------------------------|--------------|------|------|
| Mecoprop                            | DIN 38407-35 | <5   | ng/l |
| Metazachlor                         | DIN 38407-35 | <25  | ng/l |
| Metazachlor-ESA                     | DIN 38407-35 | 392  | ng/l |
| Metazachlor-OXA                     | DIN 38407-35 | 34   | ng/l |
| Methsulfuron-methyl                 | DIN 38407-35 | <25  | ng/l |
| Metolachlor                         | DIN 38407-35 | <25  | ng/l |
| Metolachlor-ESA                     | DIN 38407-35 | <25  | ng/l |
| Metolachlor-OXA                     | DIN 38407-35 | <25  | ng/l |
| Monuron                             | DIN 38407-35 | <25  | ng/l |
| Nicosulfuron                        | DIN 38407-35 | n.d. | ng/l |
| Pethoxamid                          | DIN 38407-35 | <25  | ng/l |
| Prochloraz                          | DIN 38407-35 | <25  | ng/l |
| Propachlor                          | DIN 38407-35 | <25  | ng/l |
| Prosulfocarb                        | DIN 38407-35 | <25  | ng/l |
| Quinmerac                           | DIN 38407-35 | <25  | ng/l |
| Quinoxifen                          | DIN 38407-35 | <25  | ng/l |
| Simazine                            | DIN 38407-35 | <25  | ng/l |
| Sulcotrione                         | DIN 38407-35 | n.d. | ng/l |
| Tebuconazole                        | DIN 38407-35 | <25  | ng/l |
| Tembotrione                         | DIN 38407-35 | n.d. | ng/l |
| Terbutylazine                       | DIN 38407-35 | <25  | ng/l |
| Terbutylazine-desethyl              | DIN 38407-35 | <25  | ng/l |
| MEDICAMENTS                         | par LCMSMS   |      |      |
| Carbamazepin                        | DIN 38407-35 | 466  | ng/l |
| Didofenac (free acid)               | DIN 38407-35 | <25  | ng/l |
| Ibuprofen                           | DIN 38407-35 | <25  | ng/l |
| Ketoprofen                          | DIN 38407-35 | <25  | ng/l |
| Lidocaine                           | DIN 38407-35 | 43   | ng/l |
| <b>Biochimie</b>                    |              |      |      |
| Cote DBO-5 (IPO)                    | 999          | 5    |      |
| Cote NH4 (IPO)                      | 999          | 5    |      |
| Cote NO2 (IPO)                      | 999          | 5    |      |
| Cote o-PO4 (IPO)                    | 999          | 2    |      |
| Indice de pollution organique (IPO) | 999          | 4.3  |      |

Observations : Néant

Résultats validés le 24/08/2016 par JH



### Appréciation:

Echantillons prélevés par vos soins.

Les résultats ne tiennent pas compte des incertitudes de mesure. Des renseignements supplémentaires sur les méthodes d'analyse et les incertitudes sont disponibles sur simple demande.

#### Informations spécifiques concernant les eaux potables:

L'appréciation concernant une eau potable se rapporte au règlement grand-ducal du 7 octobre 2002 relatif à la qualité des eaux destinées à la consommation humaine.

Les résultats bactériologiques sont à interpréter selon la norme ISO 8199:

- |     |                                                                |
|-----|----------------------------------------------------------------|
| <1  | : organismes non-détectés dans le volume étudié                |
| 1-3 | : organismes présents dans le volume étudié                    |
| 4-9 | : nombre estimatif d'organismes présents dans le volume étudié |

#### Informations spécifiques concernant les eaux de surface:

Les normes de qualité environnementale se basent sur le règlement grand-ducal du 15 janvier 2016 relatif à l'évaluation de l'état des masses d'eau de surface et sont exprimées en valeur moyenne annuelle.

Les normes suivantes sont appliquées aux échantillonnages sous accréditation:

- |             |                                                 |
|-------------|-------------------------------------------------|
| ISO 19458   | : analyses microbiologiques                     |
| ISO 5667-1  | : techniques d'échantillonnage                  |
| ISO 5667-3  | : conservation et manipulation des échantillons |
| ISO 5667-6  | : rivières et cours d'eau                       |
| ISO 5667-10 | : eaux usées                                    |

  
Responsable laboratoire

Digitally signed by  
Jerry Hoffmann  
Date: 2016.08.24  
15:01:08 +02'00'