|  |  |  |
| --- | --- | --- |
| **Lfd.-Nr.** | **Standort**  AL | **Kürzel** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |

**Verzeichnis der Untersuchungsverfahren**

**nach § 18 BBodSchG / § 17 LBodSchG**

## P1 – Feststoffprobenahme

| **Untersuchungsparameter** | **Methode** | **Stand** |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Handbohrungen | DIN 19671 Blatt 1 | 1964 |  |  |  |  |  |
| DIN EN ISO 22475-1 *(FM 2012)* | 01/07 |  |  |  |  |  |
| DIN ISO 10381-2 *(FM 2012)* | 2003 |  |  |  |  |  |
| Rammkernsondierung (Kleinbohrung) | EDIN ISO 10381-2 Abschn. 8.5.6 | 02/96 |  |  |  |  |  |
| DIN ISO 10381-2 *(FM 2012)* | 2003 |  |  |  |  |  |
| DIN 4021 | 10/90 |  |  |  |  |  |
| DIN EN ISO 22475-1 *(FM 2012)* | 01/07 |  |  |  |  |  |
| Proben in ungestörter Lagerung | EDIN ISO 10381-2 Abschn. 8.3 | 02/96 |  |  |  |  |  |
| DIN ISO 10381-2 *(FM 2012)* | 2003 |  |  |  |  |  |
| DIN 19672, Teil 1 | 1968 |  |  |  |  |  |
| Probengewinnung und -beschreibung | E DIN ISO 10381-1 | 02/96 |  |  |  |  |  |
| DIN ISO 10381-1 *(FM 2012)* | 2003 |  |  |  |  |  |
| EDIN ISO 10381-2 | 02/96 |  |  |  |  |  |
| DIN ISO 10381-2 *(FM 2012)* | 2003 |  |  |  |  |  |
| Bodenkundliche Kartieranleitung 4. Auflage, 1994, Nachdruck | 1996 |  |  |  |  |  |
| Bodenkundliche Kartierung 5. Auflage  *(FM 2012)* | 2005 |  |  |  |  |  |
| Arbeitssicherheit bei der Probenahme | E DIN ISO 10381-3 | 02/96 |  |  |  |  |  |
| ZH 1/183, jetzt: BGR 128 |  |  |  |  |  |  |
| DGUV 101-004 (Schulungsnachweise) |  |  |  |  |  |  |

## P2 – Bodenkundlich geprägte Probenahme

| **Untersuchungsparameter** | **Methode** | **Stand** | K1 |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Probengewinnung und -beschreibung | EDIN ISO 10381-1 | 02/96 |  |  |  |  |  |
| DIN ISO 10381-1 *(FM 2012)* | 2003 |  |  |  |  |  |
| EDIN ISO 10381-2 | 02/96 |  |  |  |  |  |
| DIN ISO 10381-2 *(FM 2012)* | 2003 |  |  |  |  |  |
| Bodenkundliche Kartieranleitung 4. Auflage, 1994, Nachdruck | 1996 |  |  |  |  |  |
| Bodenkundliche Kartierung 5. Auflage  *(FM 2012)* | 2005 |  |  |  |  |  |
| Probenahme und Bodenansprache | EDIN ISO 10381-4 | 02/96 |  |  |  |  |  |
| DIN ISO 10381-4 | 2004 |  |  |  |  |  |
| Arbeitssicherheit bei der Probenahme | E DIN ISO 10381-3 | 02/96 |  |  |  |  |  |
| ZH 1/183, jetzt: BGR 128 |  |  |  |  |  |  |
| DGUV 101-004 (Schulungsnachweise) |  |  |  |  |  |  |

## P3 - Probennahme von Grund-, Sicker- und Oberflächenwasser

| **Untersuchungsparameter** | **Methode** | **Stand** | K1 |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Probenahme von Grundwasser | DIN EN ISO 25667, Teil 2 | 1993 |  |  |  |  |  |
| DIN 38402-13 | 12.85 |
| LAWA Grundwasserrichtlinie Teil 3 | 03.93 |
| AQS-Merkblatt P 8/2 | 01.96 |
| DVWK-Regeln 128/92 | 1992 |
| DVWK-Merkblatt 245/1997 | 1997 |
| AQS-Merkblatt P 8/2 | 01.96 |  |  |  |  |  |
| ISO 5667-11 (FM 2012) | 2009 |
| DVGW-Arbeitsblatt W 112 (FM 2012) | 2011 |
| Probenahme von Sickerwasser | z. Zt. kein genormtes Verfahren | - |  |  |  |  |  |
| Probenahme von Oberflächenwasser (Fließgewässer) | DIN 38402-15 | 07.86 |  |  |  |  |  |
| AQS-Merkblatt P 8/3 | 05.98 |
| DIN 38402-15 (FM 2012) | 2010 |  |  |  |  |  |
| AQS-Merkblatt P 8/3 | 05.98 |
| Probennahme von Oberflächenwasser (stehende Gewässer) | DIN 38402-12 | 06.85 |  |  |  |  |  |
| Temperatur | DIN 38404-4 | 12.76 |  |  |  |  |  |
| pH-Wert | DIN 38404-5 | 01.84 |  |  |  |  |  |
| DIN EN ISO 10523 (FM 2012) | 2012 |  |  |  |  |  |
| Sauerstoffgehalt | DIN EN 25814 | 11.92 |  |  |  |  |  |
| elektrische Leitfähigkeit | DIN EN 27888 | 11.93 |  |  |  |  |  |

## P4 - Probennahme von Bodenluft und Deponiegas

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Untersuchungsparameter** | **Methode** | **Stand** | K1 |  |  |  |  |
| Probennahme von Bodenluft | VDI-Richtlinie 3865 Blatt 2, Abschn. 4.4.3 | 01.98 |  |  |  |  |  |
| VDI-Richtlinie 3865 Blatt 2, Abschn. 4.4.4 | 01.98 |  |  |  |  |  |
| VDI-Richtlinie 3865 Blatt 2, Abschn. 4.4.5 | 01.98 |  |  |  |  |  |
| VDI-Richtlinie 3865 Blatt 1 (FM 2012) | 2005 |  |  |  |  |  |
| DIN ISO 10381-7 (FM 2012) | 2007 |  |  |  |  |  |
| Kohlendioxid | direktanzeigendes Messgerät | - |  |  |  |  |  |
| Methan | direktanzeigendes Messgerät | - |  |  |  |  |  |
| Schwefelwasserstoff | direktanzeigendes Messgerät | - |  |  |  |  |  |
| Sauerstoff | direktanzeigendes Messgerät | - |  |  |  |  |  |
| Summenparameter Spurengase | direktanzeigendes Messgerät | - |  |  |  |  |  |

## UB1 - Feststoffe: anorganische Parameter

| **Untersuchungsparameter** | **Methode** | **Stand** | K1 |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Probenvorbehandlung, Probenvorbereitung | DIN ISO 11464 | 12.96 |  |  |  |  |  |
| DIN 19747 (FM 2012) | 2009 |  |  |  |  |  |
| Trockenmasse | DIN ISO 11465 | 12.96 |  |  |  |  |  |
| DIN EN 14346 (FM 2012) | 2007 |  |  |  |  |  |
| Organischer Kohlenstoff und Gesamtkohlenstoff nach trockener Verbrennung | DIN ISO 10694 | 08.96 |  |  |  |  |  |
| DIN EN 13137 (FM 2012) | 2001 |  |  |  |  |  |
| DIN EN 15936 (FM2012) | 2012 |  |  |  |  |  |
| pH-Wert (CaCl2) | DIN ISO 10390 | 05.97 |  |  |  |  |  |
| DIN ISO 10390 (FM 2012) | 2005 |  |  |  |  |  |
| Korngrößenverteilung | EDIN ISO 11277 | 06.94 |  |  |  |  |  |
| DIN ISO 11277 (FM 2012) | 2002 |  |  |  |  |  |
| DIN 19683-2 | 04.97 |  |  |  |  |  |
| DIN 18123 | 11.96 |  |  |  |  |  |
| DIN 18123  in Verbindung mit LAGA PN 98 (FM 2012) | 2011 |  |  |  |  |  |
| Rohdichte | EDIN ISO 11272 | 01.94 |  |  |  |  |  |
| DIN ISO 11272 (FM 2012) | 2001 |  |  |  |  |  |
| DIN 19683-12 | 04.73 |  |  |  |  |  |
| Königswasserextrakt | DIN ISO 11466 | 06.97 |  |  |  |  |  |
| DIN EN 13657 (FM 2012) | 2003 |  |  |  |  |  |
| Ammoniumnitratextrakt | DIN 19730 | 06.97 |  |  |  |  |  |
| DIN ISO 19730 (FM 2012) | 2009 |  |  |  |  |  |
| As | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| EDIN ISO 11047 | 06.95 |  |  |  |  |  |
| DIN EN ISO 11969 | 11.96 |  |  |  |  |  |
| DIN ISO 22036 (FM2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM2012) | 2005 |  |  |  |  |  |
| DIN ISO 20280 (FM2012) | 2010 |  |  |  |  |  |
| Cd | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| EDIN ISO 11047 | 06.95 |  |  |  |  |  |
| DIN ISO 11047 (FM 2012) | 2003 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Cr ges. | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| EDIN ISO 11047 | 06.95 |  |  |  |  |  |
| DIN ISO 11047 (FM 2012) | 2003 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Cr (VI) | DIN 19734 | 01.99 |  |  |  |  |  |
| DIN EN 15192 (FM 2012) | 2007 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

## Zu: UB1 - Feststoffe: anorganische Parameter

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Untersuchungsparameter** | | **Methode** | **Stand** | K1 |  |  |  |  |
| Cu | | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| EDIN ISO 11047 | 06.95 |  |  |  |  |  |
| DIN ISO 11047 (FM 2012) | 2003 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Hg | | DIN EN 1483 | 08.97 |  |  |  |  |  |
| DIN EN 1483 (FM 2012) | 2007 |  |  |  |  |  |
| DIN ISO 16772 (FM 2012) | 2005 |  |  |  |  |  |
| Ni | | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| EDIN ISO 11047 | 06.95 |  |  |  |  |  |
| DIN ISO 11047 (FM 2012) | 2003 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Pb | | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| EDIN ISO 11047 | 06.95 |  |  |  |  |  |
| DIN ISO 11047 (FM 2012) | 2003 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Tl | | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| EDIN ISO 11047 | 06.95 |  |  |  |  |  |
| DIN ISO 20279 (FM 2012) | 2006 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Zn | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| EDIN ISO 11047 | 06.95 |  |  |  |  |  |
| DIN ISO 11047 (FM 2012) | 2003 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Cyanide | EDIN ISO 11262 | 06.94 |  |  |  |  |  |
| DIN ISO 11262 (FM 2012) | 2012 |  |  |  |  |  |
| DIN ISO 17380 (FM 2012) | 2011 |  |  |  |  |  |

## UB2 - Feststoffe: organische Parameter

| **Untersuchungsparameter** | **Methode** | **Stand** | K1 |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Probenvorbehandlung, Probenvorbereitung | EDIN ISO 14507 | 02.96 |  |  |  |  |  |
| DIN 19747 (FM 2012) | 2009 |  |  |  |  |  |
| Trockenmasse | DIN ISO 11465 | 12.96 |  |  |  |  |  |
| DIN EN 14346 (FM 2012) | 2007 |  |  |  |  |  |
| Organischer Kohlenstoff und Gesamtkohlenstoff nach trockener Verbrennung | DIN ISO 10694 | 08.96 |  |  |  |  |  |
| DIN EN 13137 (FM 2012) | 2001 |  |  |  |  |  |
| DIN EN 15936 (FM 2012) | 2012 |  |  |  |  |  |

## Zu: UB2 - Feststoffe: organische Parameter

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Untersuchungsparameter** | **Methode** | **Stand** | K1 |  |  |  |  |
| pH-Wert (CaCl2) | DIN ISO 10390 | 05.97 |  |  |  |  |  |
| DIN ISO 10390 (FM 2012) | 2005 |  |  |  |  |  |
| Korngrößenverteilung | EDIN ISO 11277 | 06.94 |  |  |  |  |  |
| DIN ISO 11277 (FM2012) | 2002 |  |  |  |  |  |
| DIN 19683-2 | 04.97 |  |  |  |  |  |
| DIN 18123 | 11.96 |  |  |  |  |  |
| DIN 18123  In Verbindung mit LAGA PN 98 (FM 2012) | 2011 |  |  |  |  |  |
| Rohdichte | EDIN ISO 11272 | 01.94 |  |  |  |  |  |
| DIN ISO 11272 (FM2012) | 2001 |  |  |  |  |  |
| DIN 19683-12 | 04.73 |  |  |  |  |  |
| Aldrin | EDIN ISO 10382 | 02.98 |  |  |  |  |  |
| DIN ISO 10382 (FM 2012) | 2003 |  |  |  |  |  |
| VDLUFA Methodenbuch Bd. VII |  |  |  |  |  |  |
| DIN EN 15308 (FM 2012) | 2008 |  |  |  |  |  |
| DDT | EDIN ISO 10382 | 02.98 |  |  |  |  |  |
| DIN ISO 10382 (FM 2012) | 2003 |  |  |  |  |  |
| VDLUFA Methodenbuch Bd. VII |  |  |  |  |  |  |
| DIN EN 15308 (FM 2012) | 2008 |  |  |  |  |  |
| HCH-Gemisch | EDIN ISO 10382 | 02.98 |  |  |  |  |  |
| DIN ISO 10382 (FM 2012) | 2003 |  |  |  |  |  |
| VDLUFA Methodenbuch Bd. VII |  |  |  |  |  |  |
| DIN EN 15308 (FM 2012) | 2008 |  |  |  |  |  |
| Hexachlorbenzol | EDIN ISO 10382 | 02.98 |  |  |  |  |  |
| DIN ISO 10382 (FM 2012) | 2003 |  |  |  |  |  |
| PAK (16 EPA), Benzo(a)pyren | Merkblatt Nr. 1 LUA NRW | 1994 |  |  |  |  |  |
| EDIN ISO 13877 | 06.95 |  |  |  |  |  |
| DIN ISO 13877 (FM 2012) | 2000 |  |  |  |  |  |
| VDLUFA Methodenbuch Bd. VII |  |  |  |  |  |  |
| Handbuch Altlasten Bd. 7, LfU Hessen |  |  |  |  |  |  |
| DIN ISO 18287 (FM 2012) | 2006 |  |  |  |  |  |
| DIN 38414-23 (FM 2012) | 2002 |  |  |  |  |  |
| PCB | EDIN ISO 10382 | 02.98 |  |  |  |  |  |
| DIN ISO 10382 (FM 2012) | 2003 |  |  |  |  |  |
| DIN 38414-20 | 01.96 |  |  |  |  |  |
| VDLUFA Methodenbuch Bd. VII |  |  |  |  |  |  |
| DIN EN 15308 (FM 2012) | 2008 |  |  |  |  |  |
| Pentachlorphenol | EDIN ISO 14154 | 10.97 |  |  |  |  |  |
| DIN ISO 14154 (FM 2012) | 2005 |  |  |  |  |  |

## UB3 - Feststoffe: Dioxine und Furane

| **Untersuchungsparameter** | **Methode** | **Stand** | K1 |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Probenvorbehandlung, Probenvorbereitung | EDIN ISO 14507 | 02.96 |  |  |  |  |  |
| DIN 19747 (FM 2012) | 2009 |  |  |  |  |  |
| Trockenmasse | DIN ISO 11465 | 12.96 |  |  |  |  |  |
| DIN EN 14346 (FM 2012) | 2007 |  |  |  |  |  |
| Organischer Kohlenstoff und Gesamtkohlenstoff nach trockener Verbrennung | DIN ISO 10694 | 08.96 |  |  |  |  |  |
| DIN EN 13137 (FM 2012) | 2001 |  |  |  |  |  |
| DIN EN 15936 (FM 2012) | 2012 |  |  |  |  |  |
| pH-Wert (CaCl2) | DIN ISO 10390 | 05.97 |  |  |  |  |  |
| DIN ISO 10390 (FM 2012) | 2005 |  |  |  |  |  |
| Korngrößenverteilung | EDIN ISO 11277 | 06.94 |  |  |  |  |  |
| DIN ISO 11277 (FM 2012) | 2002 |  |  |  |  |  |
| DIN 19683-2 | 04.97 |  |  |  |  |  |
| DIN 18123 | 11.96 |  |  |  |  |  |
| DIN 18123  In Verbindung mit LAGA PN 98 (FM 2012) | 2011 |  |  |  |  |  |
| Rohdichte | EDIN ISO 11272 | 01.94 |  |  |  |  |  |
| DIN ISO 11272 (FM 2012) | 2001 |  |  |  |  |  |
| DIN 19683-12 | 04.73 |  |  |  |  |  |
| PCDD/PCDF | DIN 38414-24 | 04.98 |  |  |  |  |  |
| DIN 38414-24 (FM 2012) | 2000 |  |  |  |  |  |
| VDI-Richtlinie 3499, Blatt 1 | 03.90 |  |  |  |  |  |

## UB4 - Grund-, Sicker-, Oberflächenwasser

| **Untersuchungsparameter** | **Methode** | **Stand** | K1 |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Elutionsverfahren 1 (Bodensättigungsextrakt) | BBodSchV Anhang 1, 3.1.2 |  |  |  |  |  |  |
| DIN 19529 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 19527 (FM 2012) | 2012 |
| Elutionsverfahren 2  (modifiziertes S-4 Verfahren) | DIN 38414-S4,  BBodSchV Anhang 1, 3.1.2 | 10.84 |  |  |  |  |  |
| DIN EN 12457-4 (FM 2012) | 2003 |  |  |  |  |  |
| Elutionsverfahren 3  (Säulen- oder Lysimeterversuch) | - z. Z. kein genormtes Verfahren verfügbar; wird erst Teil des Mindestumfanges, wenn ein validiertes Verfahren verfügbar ist. | - |  |  |  |  |  |
| As | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN EN ISO 11969 | 11.96 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| DIN ISO 20280 (FM 2012) | 2010 |  |  |  |  |  |
| Cd | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN EN ISO 5961 | 05.95 |  |  |  |  |  |
| DIN EN ISO 15586 (FM 2012) | 2004 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |

Zu: UB4 - Grund-, Sicker-, Oberflächenwasser

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Untersuchungsparameter** | **Methode** | **Stand** | K1 |  |  |  |  |
| Co | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN 38406-24 | 03.93 |  |  |  |  |  |
| DIN EN ISO 15586 (FM 2012) | 2004 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Cr ges. | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN EN 1233 | 08.96 |  |  |  |  |  |
| DIN EN ISO 15586 (FM 2012) | 2004 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Cr (VI) | DIN 38405-24 | 05.87 |  |  |  |  |  |
| DIN EN ISO 10304-3 | 11.97 |  |  |  |  |  |
| Cu | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN 38406-7 | 09.91 |  |  |  |  |  |
| DIN EN ISO 15586 (FM 2012) | 2004 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Hg | DIN EN 1483 | 08.97 |  |  |  |  |  |
| DIN EN 1483 (FM 2012) | 2007 |  |  |  |  |  |
| DIN ISO 16772 (FM 2012) | 2005 |  |  |  |  |  |
| Mo | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN EN ISO 15586 (FM 2012) | 2004 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Ni | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN 38406-11 | 09.91 |  |  |  |  |  |
| DIN EN ISO 15586 (FM 2012) | 2004 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Pb | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN 38406-6 | 07.98 |  |  |  |  |  |
| DIN EN ISO 15586 (FM 2012) | 2004 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |

Zu: UB4 - Grund-, Sicker-, Oberflächenwasser

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| **Untersuchungsparameter** | **Methode** | **Stand** | K1 |  |  |  |  |
| Sb | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN EN ISO 11969 | 11.96 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| DIN ISO 20280 (FM 2012) | 2010 |  |  |  |  |  |
| Se | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN 38405-23 | 10.94 |  |  |  |  |  |
| DIN EN ISO 15586 (FM 2012) | 2004 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| DIN ISO 20280 (FM 2012) | 2010 |  |  |  |  |  |
| Sn | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Tl | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| Zn | DIN EN ISO 11885 | 04.98 |  |  |  |  |  |
| DIN EN ISO 11885 (FM 2012) | 2009 |  |  |  |  |  |
| DIN 38406-29 | 05.99 |  |  |  |  |  |
| DIN 38406-8 | 10.80 |  |  |  |  |  |
| DIN ISO 22036 (FM 2012) | 2009 |  |  |  |  |  |
| DIN EN ISO 17294-2 (FM 2012) | 2005 |  |  |  |  |  |
| DIN ISO 20280 (FM 2012) | 2010 |  |  |  |  |  |
| Cyanid, gesamt | DIN 38405-13 | 02.81 |  |  |  |  |  |
| DIN 38405-13 (FM 2012) | 2011 |  |  |  |  |  |
| EDIN ISO 14403 | 05.98 |  |  |  |  |  |
| DIN EN ISO 14403 (FM 2012) | 2002 |  |  |  |  |  |
| DIN EN ISO 17380 (FM 2012) | 2011 |  |  |  |  |  |
| Cyanid, leicht freisetzbar | DIN 38405-13 | 02.81 |  |  |  |  |  |
| DIN 38405-13 (FM 2012) | 2011 |  |  |  |  |  |
| DIN EN ISO 14403 (FM 2012) | 2002 |  |  |  |  |  |
| DIN EN ISO 17380 (FM 2012) | 2011 |  |  |  |  |  |
| Fluorid | DIN 38405-4 | 07.85 |  |  |  |  |  |
| DIN EN ISO 10304-1 | 04.95 |  |  |  |  |  |
| DIN EN ISO 10304-1 (FM 2012) | 2009 |  |  |  |  |  |
| Aldrin | DIN 38407-2 | 02.93 |  |  |  |  |  |
| DIN EN ISO 6468 (FM 2012) | 1997 |  |  |  |  |  |

Zu: UB4 - Grund-, Sicker-, Oberflächenwasser

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| **Untersuchungsparameter** | **Methode** | **Stand** | K1 |  |  |  |  |
| BTEX | DIN 38407-9 | 05.91 |  |  |  |  |  |
| DIN EN ISO 15680 (FM 2012) | 2004 |  |  |  |  |  |
| DIN 38407-41 (FM 2012) | 2011 |  |  |  |  |  |
| Chlorphenole | ISO DIS 8165-2 | 01.97 |  |  |  |  |  |
| DIN EN 12673 (FM 2012) | 1999 |  |  |  |  |  |
| Chlorbenzole | DIN 38407-2 | 02.93 |  |  |  |  |  |
| DIN EN ISO 6468 (FM 2012) | 1997 |  |  |  |  |  |
| DDT | DIN 38407-2 | 02.93 |  |  |  |  |  |
| DIN EN ISO 6468 (FM 2012) | 1997 |  |  |  |  |  |
| LHKW | DIN EN ISO 10301 | 08.97 |  |  |  |  |  |
| DIN EN ISO 15680 (FM 2012) | 2004 |  |  |  |  |  |
| DIN 38407-41 (FM 2012) | 2011 |  |  |  |  |  |
| MKW | ISO/TR 11064 | 06.94 |  |  |  |  |  |
| DIN EN ISO 9377-2 (FM 2012) | 2001 |  |  |  |  |  |
| Naphthalin | DIN 38407-9 | 05.91 |  |  |  |  |  |
| DIN EN ISO 15680 (FM 2012) | 2004 |  |  |  |  |  |
| PAK, gesamt | DIN 38407-18 | 05.99 |  |  |  |  |  |
| DIN EN ISO 17993 (FM 2012) | 2004 |  |  |  |  |  |
| DIN 38407-39 (FM 2012) | 2011 |  |  |  |  |  |
| PCB | DIN EN ISO 6468 | 02.97 |  |  |  |  |  |
| DIN 51527-1 | 05.87 |  |  |  |  |  |
| DIN 38407-3 | 07.98 |  |  |  |  |  |
| DIN 38407-2 (FM 2012) | 1993 |  |  |  |  |  |
| Phenole | ISO DIS 8165-2 | 01.97 |  |  |  |  |  |
| ISO 8165-2 (FM 2012) | 1999 |  |  |  |  |  |
| DIN EN 12673 (FM 2012) | 1999 |  |  |  |  |  |

## UB5 - Bodenluft, Deponiegas

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| **Untersuchungsparameter** | **Methode** | **Stand** | K1 |  |  |  |  |
| BTEX | VDI-Richtlinie 3865, Blatt 3, Abschn. 3.2 | 11.96 |  |  |  |  |  |
| VDI-Richtlinie 3865, Blatt 3 (FM 2012) | 1998 |  |  |  |  |  |
| VDI-Richtlinie 3865, Blatt 4 (FM 2012) | 2000 |  |  |  |  |  |
| LHKW | VDI-Richtlinie 3865, Blatt 3, Abschn. 3.2 | 11.96 |  |  |  |  |  |
| VDI-Richtlinie 3865, Blatt 3 (FM 2012) | 1998 |  |  |  |  |  |
| VDI-Richtlinie 3865, Blatt 4 (FM 2012) | 2000 |  |  |  |  |  |