Table S2. Environmental samples used for library construction

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| **Source** | **Sample type****(Sample no.)** | **LSU clone** | **ITS clone** | ***Pd* real-PCR screening** |
| Graphite mine Warren, NY (GMW) | Sediment (6724, 6743) | GMW\_D01 | GMW\_S01 | + |
| Swab (6734, 6745) | GMW\_D06 | GMW\_S06 | + |
| Barton mine, Essex, NY (BME) | Sediment (6785, 6792) | BME\_D02 | BME\_S02 | + |
| Swab (6789, 6801) | BME\_D07 | BME\_S07 | + |
| Swab(38274, 38275) | BME\_D010 | BME\_S10 | -/+ |
| Hailes cave, Albany, NY (HCA) | Sediment (6805, 6817) | HCA\_D03 | HCA\_S03 | - |
| Swab(6807, 6811) | HCA\_D08 | HCA\_S08 | + |
| Aeolus cave, Bennington, VT (ACV) | Sediment (38257, 38266) | ACV\_D04 | ACV\_S04 | + |
| Swab(38258, 38263) | ACV\_D09 | ACV\_S09 | + |
| Williams mine, Ulster, NY (WMU) | Sediment (39150, 39151) | WMU\_D011 | WMU\_S11 | - |
| Swab (39145, 41549) | WMU\_D012 | WMU\_S12 | -/+ |
| Hitchcock mine, Essex, NY (HME) | Sediment (38270, 38273) | HME\_D05 | HME\_S05 | + |

Note: The sample number in parenthesis under the sample type column are same source as described in table S1; positive (+) or negative (-) for presence or absence of *Pd* gDNA