### Supplemental list of species

#### Insecta

| Family | Genus | Species | Additional Info |
|--------|-------|---------|-----------------|
| **Trichoptera** | | | |
| **Plecoptera** | | | |
| **Neuroptera** | | | |
| **Megaloptera** | | | |
| **Heteroptera** | | | |
| **Ephemeroptera** | | | |
| **Ensifera** | | | |
| **Diptera** | | | |
| **Coleoptera** | | | |
| **Anostraca** | | | |
| **Agnatha** | | | |
| **Hirudinea** | | | |
| **Teleostei** | | | |
Bathyomphalus contaminus  
Gastropoda  
Muscula  
990  
EF417131

Hypopontia bimaculata  
Gastropoda  
Muscula  
1000  
EF417132

Physa fontinalis  
Gastropoda  
Muscula  
990  
EF417133

Platynereis dumerilii  
Gastropoda  
Muscula  
1000  
EF417134

Petromyzon marinus  
Gastropoda  
Muscula  
995  
EF417135

Rhiopoma stagnale  
Gastropoda  
Muscula  
1005  
EF417136

Vaironi cristata  
Gastropoda  
Muscula  
1003  
rev2  
EF417137

Acroderaloides maximus  
Nematoidea  
Nematomidae  
967  
EF417138

Acroderaloides maximus  
Nematoidea  
Nematomidae  
967  
EF417139

Caenorhabditis briggsae  
Nematoidea  
Nematomidae  
836  
EF417140

Caenorhabditis elegans  
Nematoidea  
Nematomidae  
836  
EF417141

Cephalodidae sp. PS1146  
Nematoidea  
Nematomidae  
965  
EF417142

Diploptera inermis  
Nematoidea  
Nematomidae  
960  
EF417143

Fissurella mesnoum  
Nematoidea  
Nematomidae  
955  
EF417144

Panagrolaimus sp. (Brombeer Bohrmann)  
Nematoidea  
Nematomidae  
954  
EF417145

Panagrolaimus sp. (H168)  
Nematoidea  
Nematomidae  
957  
EF417146

Plectus aquatilis  
Nematoidea  
Nematomidae  
975  
EF417147

Plectus globulus  
Nematoidea  
Nematomidae  
977  
EF417148

Rhabditis glutinis  
Nematoidea  
Nematomidae  
731  
EF417149

Rhabditis dolichura  
Nematoidea  
Nematomidae  
807  
EF417150

Rhabditis nematode  
Nematoidea  
Nematomidae  
836  
EF417151

Rhabditis larga  
Nematoidea  
Nematomidae  
796  
EF417152

Rhabditis javalana  
Nematoidea  
Nematomidae  
807  
EF417153

Mesocentrotus ocellatus  
Nematoidea  
Nematomidae  
815  
EF417154

Alburnus alburnus  
Teleostei  
Teleostei  
1052  
EF417161

Angelus anguilla  
Teleostei  
Teleostei  
1129  
EF417162

Fennolebias longimacrus  
Teleostei  
Teleostei  
1064  
EF417163

Aphanius punctipinnis  
Teleostei  
Teleostei  
1051  
EF417164

Aphanius  
Teleostei  
Teleostei  
1068  
EF417174

Barbatula barbatula  
Teleostei  
Teleostei  
1042  
EF417165

Barbus barbus  
Teleostei  
Teleostei  
1063  
EF417166

Benthochromis  
Teleostei  
Teleostei  
1059  
EF417167

Benthophilus sp.  
Teleostei  
Teleostei  
1044  
EF417173

Brachydanio rerio  
Teleostei  
Teleostei  
1088  
EF417169

Brachydanio rerio  
Teleostei  
Teleostei  
1103  
EF417156

Brachydanio rerio  
Teleostei  
Teleostei  
1104  
EF417157

Epiplatys bicolor  
Teleostei  
Teleostei  
1186  
EF417193

Galerita occidentalis  
Teleostei  
Teleostei  
1139  
EF417158

Galerita argentina  
Teleostei  
Teleostei  
1055  
EF417179

Gobio gobio  
Teleostei  
Teleostei  
1082  
EF417170

Gymnogobius rufus  
Teleostei  
Teleostei  
1042  
EF417181

Hemichromis alboflavus  
Teleostei  
Teleostei  
1051  
EF417183

Jordanella flaviruta  
Teleostei  
Teleostei  
1044  
EF417194

Lepomis gibbosus  
Teleostei  
Teleostei  
1041  
EF417182

Leuciscus cephalus  
Teleostei  
Teleostei  
1052  
EF417165

Leuciscus cephalus  
Teleostei  
Teleostei  
1054  
EF417166

Merothoerina ladigesi  
Teleostei  
Teleostei  
1104  
EF417188

Milgromia fosalis  
Teleostei  
Teleostei  
1050  
EF417171

Nemognathus sp.  
Teleostei  
Teleostei  
1044  
EF417179

Notobatidae kugerii  
Teleostei  
Teleostei  
1091  
EF417175

Oxyopsis rigida  
Teleostei  
Teleostei  
1067  
EF417186

Paiacanthopsiopsis macularia  
Teleostei  
Teleostei  
1059  
EF417184

Phronima pachysoma  
Teleostei  
Teleostei  
1031  
EF417108

Phoxinus sp.  
Teleostei  
Teleostei  
1131  
EF417179

Phoxinus sp.  
Teleostei  
Teleostei  
1053  
EF417195

Phoxinus marinus  
Teleostei  
Teleostei  
1044  
EF417150

Rivulus aequinoctialis  
Teleostei  
Teleostei  
1055  
EF417192

Rivulus aequinoctialis  
Teleostei  
Teleostei  
1052  
EF417197

Salaria glebii  
Teleostei  
Teleostei  
1049  
EF417172

Salaria hippus  
Teleostei  
Teleostei  
1051  
EF417159

Salmo gairdneri  
Teleostei  
Teleostei  
1051  
EF417160

Silurus glanis  
Teleostei  
Teleostei  
1143  
EF417177

Silurus glanis  
Teleostei  
Teleostei  
1108  
EF417188

Xenopus nigroguttatus  
Teleostei  
Teleostei  
1084  
EF417187

Sequenced environmental contaminations of DNA samples

Contaminated Arable chernozem 5

Hypotrichia  
not complete  
EF417278

Contamination Agroplus alumin  

Ciliophora  
not complete  
EF417279

Lumbricross nemurus aquaeus  

98% V. burnetii  
not complete  
EF417280

Contamination Clean dipterum  

Ciliophora  
not complete  
EF417283

Contamination Cillotus  

93% G. saliens  
not complete  
EF417281

Lumbricross nemurus aquaeus  

98% Nitotrichia fusiformis  
not complete  
EF417282

Contamination Hadax ovata  

98% Asn. philistae  
not complete  
EF417284

Remarks:

rev2: sequenced with rev2, 48 bp shorter as those sequenced with rev1

* = single sequences at 3' or 5' end not complete

** = percent sequence similarity according to blast search in GenBank