

Supplementary Table 1. Sample locations in the Raspberry Rising Cave with their distinctive properties as indicated.

| Date | Time | Sample No. | Location (survey) | Distance from Entrance | Location description | Description of sample/observation | Cave sediment pH | Cave sediment Temp | Sent by (person/date) |
|-----------|------|------------|-------------------|------------------------|--|---|------------------|--------------------|-------------------------|
| 9-Apr-17 | 1615 | 1 | S.108 | ~ 750 Meters | Wall of no return/Blueberry connection chamber | Top cave sediments | N/A | Approx 4.8 C | C Stenner 10 April 2017 |
| 9-Apr-17 | 1615 | 2 | S. 108 | ~ 750 Meters | Wall of no return/Blueberry connection chamber | Cave sediments 1 foot depth | N/A | Approx 4.8 C | C Stenner 10 April 2017 |
| 9-Apr-17 | 1830 | 3 | S. 44 | 123 Meters | Sandbar in streamway below S. 17 | Top cave sediments | N/A | Approx 4.8 C | C Stenner 10 April 2017 |
| 9-Apr-17 | 1830 | 4 | S. 44 | 123 Meters | Sandbar in streamway below S. 17 | Cave sediments 1/2 foot depth | N/A | Approx 4.8 C | C Stenner 10 April 2017 |
| 17-Mar-8 | 1300 | 5 | S. 17 | 119 Meters | Up climb into low chamber above S.17 stream | Microbial mat: multi-colored wall encrustations, flakes | N/A | N/A | C Stenner 19 Mar 2018 |
| 17-Mar-18 | 1300 | 6 | S. 17 | 119 Meters | Up climb into low chamber above S.17 stream | Microbial mat: Orange colored fluffy substance on wall | N/A | N/A | C Stenner 19 Mar 2018 |
| 17-Mar-18 | 1300 | 7 | S. 17 | 119 Meters | Up climb into low chamber above S.17 stream | Microbial mat: multi-colored wall encrustations, flakes | N/A | N/A | C Stenner 19 Mar 2018 |