

## Appendix 2

### Individual Sample Data

| Date       | Time  | Site         | Latitude   | Longitude   | Elevation (ft) | County     | Ecoregion | Flow | Flow (cfs) | Air Temp (°C) | H2O Temp (°C) |
|------------|-------|--------------|------------|-------------|----------------|------------|-----------|------|------------|---------------|---------------|
| 1/4/2006   | 3:26  | Asa Jones    | N29.46.096 | W102.33.793 | 1583           | Brewster   | CLMB      | Med  |            |               | 31.9          |
| 8/22/2006  | 1:39  | Blue         | N29.53.629 | W100.59.675 | 1307           | Val Verde  | SEP       | High | 0.00       | 35.5          | 22.58         |
| 8/30/2006  | 10:58 | Bridge       | N30.38.675 | W104.09.993 | 6946           | Jeff Davis | CMW       | Med  | 0.76       | 19.9          | 16.13         |
| 3/16/2006  | 12:25 | Bridge       | N30.38.675 | W104.09.993 | 6946           | Jeff Davis | CMW       | Low  |            | 17.3          | 7.21          |
| 3/16/2006  | 12:25 | Bridge       | N30.38.675 | W104.09.993 | 6946           | Jeff Davis | CMW       | Low  |            | 17.3          | 7.21          |
| 1/14/2005  |       | Bridge       | N30.38.675 | W104.09.993 | 6946           | Jeff Davis | CMW       | Low  |            | 16            | 4.3           |
| 5/19/2005  |       | Bridge       | N30.38.675 | W104.09.993 | 6946           | Jeff Davis | CMW       | Low  |            | 19            | 5.9           |
| 8/30/2006  |       | Bridge       | N30.38.675 | W104.09.993 | 6946           | Jeff Davis | CMW       | Low  |            | 19.9          | 14.44         |
| 8/27/2006  | 3:40  | Burro        | N29.17.255 | W103.25.549 | 3169           | Brewster   | CDG       | Low  |            | 22.1          | 24.6          |
| 3/11/2006  | 9:09  | Burro        | N29.17.255 | W103.25.549 | 3169           | Brewster   | CDG       | Low  |            | 17.6          | 21.67         |
| 10/9/2004  |       | Burro        | N29.17.255 | W103.25.549 | 3169           | Brewster   | CDG       | Low  |            | 24            | 23.55         |
| 8/26/2006  | 5:20  | Buttrill     | N30.09.455 | W103.17.164 | 3398           | Brewster   | CDG       | Low  | 0.06       | 30.9          | 23.5          |
| 8/26/2006  | 5:20  | Buttrill     | N30.09.455 | W103.17.164 | 3398           | Brewster   | CDG       | Low  | 0.06       | 30.9          | 23.5          |
| 3/10/2006  | 10:50 | Buttrill     | N30.09.455 | W103.17.164 | 3398           | Brewster   | CDG       | Low  | 0.02       | 24.9          | 21.63         |
| 3/10/2006  | 10:50 | Buttrill     | N30.09.455 | W103.17.164 | 3398           | Brewster   | CDG       | Low  | 0.02       | 24.9          | 21.63         |
| 12/15/2005 | 1:25  | Buttrill     | N30.09.455 | W103.17.164 | 3398           | Brewster   | CDG       | Low  |            | 12            | 20.82         |
| 12/15/2005 | 1:25  | Buttrill     | N30.09.455 | W103.17.164 | 3398           | Brewster   | CDG       | Low  |            | 12            | 20.82         |
| 8/16/2005  | 2:43  | Buttrill     | N30.09.455 | W103.17.164 | 3398           | Brewster   | CDG       | Low  |            |               | 22.95         |
| 3/11/2005  |       | Buttrill     | N30.09.455 | W103.17.164 | 3398           | Brewster   | CDG       | Low  | 0.16       |               | 17.25         |
| 5/14/2005  |       | Buttrill     | N30.09.455 | W103.17.164 | 3398           | Brewster   | CDG       | Low  | 0.09       | 24            | 21.21         |
| 3/9/2006   | 8:54  | Caroline     | N30.28.156 | W101.48.211 | 2142           | Terrell    | STK       | High | 0.00       | 23.7          | 21.91         |
| 12/16/2005 | 8:15  | Caroline     | N30.28.156 | W101.48.211 | 2142           | Terrell    | STK       | High |            | 7.5           | 21.85         |
| 8/15/2005  | 5:30  | Caroline     | N30.28.156 | W101.48.211 | 2142           | Terrell    | STK       | High | 9.02       |               | 21.89         |
| 8/12/2004  |       | Caroline     | N30.28.156 | W101.48.211 | 2142           | Terrell    | STK       | High |            |               | 22.01         |
| 1/13/2005  |       | Caroline     | N30.28.156 | W101.48.211 | 2142           | Terrell    | STK       | High |            | 6             | 21.56         |
| 5/13/2005  |       | Caroline     | N30.28.156 | W101.48.211 | 2142           | Terrell    | STK       | High | 11.17      | 33            | 21.96         |
| 1/14/2007  | 21:00 | Caroline     | N30.28.156 | W101.48.211 | 2142           | Terrell    | STK       | High | 3.34       |               | 21.8          |
| 1/14/2007  | 21:00 | Caroline     | N30.28.156 | W101.48.211 | 2142           | Terrell    | STK       | High | 3.20       |               | 21.8          |
| 3/9/2006   | 7:37  | Caroline-Crk | N30.28.156 | W101.48.211 | 2142           | Terrell    | STK       | High | 0.00       | 21            | 19.36         |
| 12/16/2005 | 9:30  | Caroline-Crk | N30.28.156 | W101.48.211 | 2142           | Terrell    | STK       | High |            | 9.5           | 18.5          |
| 1/12/2007  | 3:06  | Cave         | N29.49.781 | W104.21.331 | 5060           | Presidio   | CMW       | Low  |            | 19            | 16.12         |
| 3/18/2006  | 7:35  | Choza        | N31.54.367 | W104.47.125 | 5286           | Culberson  | CDS       | Low  | 0.07       | 12.1          | 16.43         |
| 3/18/2006  | 7:35  | Choza        | N31.54.367 | W104.47.125 | 5286           | Culberson  | CDS       | Low  | 0.07       | 12.1          | 16.43         |
| 12/10/2005 | 9:00  | Choza        | N31.54.367 | W104.47.125 | 5286           | Culberson  | CDS       | Low  | 0.01       | 9.5           | 16.45         |
| 12/10/2005 | 9:00  | Choza        | N31.54.367 | W104.47.125 | 5286           | Culberson  | CDS       | Low  | 0.01       | 9.5           | 16.45         |
| 10/15/2004 |       | Choza        | N31.54.367 | W104.47.125 | 5286           | Culberson  | CDS       | Low  |            | 26            | 17.85         |

## Appendix 2

### Individual Sample Data

| Date       | Time  | Site           | Latitude   | Longitude   | Elevation (ft) | County    | Ecoregion | Flow | Flow (cfs) | Air Temp (°C) | H2O Temp (°C) |
|------------|-------|----------------|------------|-------------|----------------|-----------|-----------|------|------------|---------------|---------------|
| 4/16/2005  |       | Choza          | N31.54.367 | W104.47.125 | 5286           | Culberson | CDS       | Low  | 0.18       | 12            | 16.54         |
| 5/18/2005  |       | Choza          | N31.54.367 | W104.47.125 | 5286           | Culberson | CDS       | Low  | 0.21       | 28            | 17.26         |
| 8/20/2005  | 20:29 | Choza          | N31.54.367 | W104.47.125 | 5286           | Culberson | CDS       | Low  |            |               | 18.03         |
| 8/17/2005  | 3:00  | Cienaga        | N29.48.202 | W104.12.682 | 3843           | Presidio  | CLMB      | Low  |            |               | 26.07         |
| 5/16/2005  |       | Cienaga        | N29.48.202 | W104.12.682 | 3843           | Presidio  | CLMB      | Low  | 0.16       | 24            | 23.49         |
| 8/28/2006  | 3:53  | Cinco Tinajas  | N29.28.881 | W103.58.255 | 4056           | Presidio  | CLMB      | Low  |            | 35.7          | 32.81         |
| 9/1/2006   | 10:50 | Cottonwood     | N29.55.218 | W103.39.852 | 4108           | Brewster  | CDG       | Low  |            | 29.6          | 22.8          |
| 9/1/2006   | 1:42  | Davenport      | N29.55.414 | W103.44.397 | 4130           | Brewster  | LMB       | Low  |            | 35.2          | 23.85         |
| 8/25/2006  | 9:55  | Dolan          | N29.53.460 | W100.59.106 | 1466           | Val Verde | SEP       | High | 0.00       | 26.6          | 22.53         |
| 9/1/2006   | 4:06  | Duff           | N29.56.904 | W103.42.405 | 4086           | Brewster  | CLMB      | Med  | 0.00       | 28.6          | 24.63         |
| 3/14/2006  | 1:25  | Duff           | N29.56.904 | W103.42.405 | 4086           | Brewster  | CLMB      | Med  | 0.00       | 27.2          | 21.9          |
| 3/14/2006  | 1:25  | Duff           | N29.56.904 | W103.42.405 | 4086           | Brewster  | CLMB      | Med  | 0.00       | 27.2          | 21.9          |
| 12/13/2005 |       | Duff           | N29.56.904 | W103.42.405 | 4086           | Brewster  | CLMB      | Med  |            |               |               |
| 12/13/2005 |       | Duff           | N29.56.904 | W103.42.405 | 4086           | Brewster  | CLMB      | Med  |            |               |               |
| 8/19/2005  | 12:24 | Duff           | N29.56.904 | W103.42.405 | 4086           | Brewster  | CLMB      | Med  | 0.00       |               | 29.37         |
| 3/9/2006   | 5:08  | Glenn          | N29.10.524 | W103.09.442 | 2591           | Brewster  | CDG       | Low  |            | 25.2          | 19.96         |
| 10/8/2004  |       | Glenn          | N29.10.524 | W103.09.442 | 2591           | Brewster  | CDG       | Low  |            |               | 25.67         |
| 3/12/2005  |       | Glenn          | N29.10.524 | W103.09.442 | 2591           | Brewster  | CDG       | Low  | 0.09       |               | 18.53         |
| 3/17/2006  | 9:30  | Guadalupe      | N31.52.182 | W104.50.284 | 5409           | Culberson | CDS       | Low  | 0.03       | 15            | 9.7           |
| 3/17/2006  | 9:30  | Guadalupe      | N31.52.182 | W104.50.284 | 5409           | Culberson | CDS       | Low  | 0.03       | 15            | 9.7           |
| 12/10/2005 | 1:09  | Guadalupe      | N31.52.182 | W104.50.284 | 5409           | Culberson | CDS       | Low  | 0.00       | 12.5          | 13.48         |
| 12/10/2005 | 1:09  | Guadalupe      | N31.52.182 | W104.50.284 | 5409           | Culberson | CDS       | Low  | 0.00       | 12.5          | 13.48         |
| 10/16/2004 |       | Guadalupe      | N31.52.182 | W104.50.284 | 5409           | Culberson | CDS       | Low  |            | 13            | 13.25         |
| 4/16/2005  |       | Guadalupe      | N31.52.182 | W104.50.284 | 5409           | Culberson | CDS       | Low  | 0.11       | 12            | 14.03         |
| 8/20/2005  | 1:19  | Guadalupe      | N31.52.182 | W104.50.284 | 5409           | Culberson | CDS       | Low  |            |               | 18.67         |
| 1/12/2007  | 1:03  | High Elevation | N29.50.577 | W104.21.590 | 4838           | Presidio  | CLMB      | Low  |            | 23.2          | 15.21         |
| 8/29/2006  | 12:15 | Indian Cave    | N29.48.790 | W104.12.246 | 4055           | Presidio  | CLMB      | Med  | 0.00       | 27.7          | 23.84         |
| 3/13/2006  | 12:44 | Indian Cave    | N29.48.790 | W104.12.246 | 4055           | Presidio  | CLMB      | Med  | 0.00       | 24.2          | 21.44         |
| 3/13/2006  | 12:44 | Indian Cave    | N29.48.790 | W104.12.246 | 4055           | Presidio  | CLMB      | Med  | 0.00       | 24.2          | 21.44         |
| 1/3/2006   | 2:25  | Kyle           | N29.50.264 | W102.12.043 | 1483           | Brewster  | CLMB      | Med  | 0.92       | 27.5          | 31            |
| 8/29/2006  | 11:15 | La Morita      | N29.46.317 | W104.15.526 | 3868           | Presidio  | CLMB      | Low  |            | 22.2          | 20.17         |
| 3/13/2006  | 10:25 | La Morita      | N29.46.317 | W104.15.526 | 3868           | Presidio  | CLMB      | Low  | 0.00       | 18.1          | 12.84         |
| 3/13/2006  | 10:25 | La Morita      | N29.46.317 | W104.15.526 | 3868           | Presidio  | CLMB      | Low  | 0.00       | 18.1          | 12.84         |
| 8/11/2004  |       | La Morita      | N29.46.317 | W104.15.526 | 3868           | Presidio  | CLMB      | Low  |            |               | 24.72         |
| 3/13/2005  |       | La Morita      | N29.46.317 | W104.15.526 | 3868           | Presidio  | CLMB      | Low  | 0.21       |               | 24.32         |
| 1/11/2007  | 4:25  | Las Cuevas     | N29.29.650 | W104.06.137 | 3606           | Presidio  | CLMB      | Low  | 0.20       | 21            | 23.44         |

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| Date       | Time  | Site       | Latitude   | Longitude   | Elevation (ft) | County     | Ecoregion | Flow | Flow (cfs) | Air Temp (°C) | H2O Temp (°C) |
|------------|-------|------------|------------|-------------|----------------|------------|-----------|------|------------|---------------|---------------|
| 8/11/2004  |       | Las Cuevas | N29.29.650 | W104.06.137 | 3606           | Presidio   | CLMB      | Low  |            |               | 23.36         |
| 3/13/2005  |       | Las Cuevas | N29.29.650 | W104.06.137 | 3606           | Presidio   | CLMB      | Low  | 0.14       |               | 21.81         |
| 5/15/2005  |       | Las Cuevas | N29.29.650 | W104.06.137 | 3606           | Presidio   | CLMB      | Low  | 0.13       | 21            | 22.44         |
| 3/15/2006  | 11:10 | Limpia     | N30.38.147 | W104.08.298 | 6206           | Jeff Davis | CMW       | Low  |            | 21.6          | 10.97         |
| 3/15/2006  | 11:10 | Limpia     | N30.38.147 | W104.08.298 | 6206           | Jeff Davis | CMW       | Low  |            | 21.6          | 10.97         |
| 12/12/2005 |       | Limpia     | N30.38.147 | W104.08.298 | 6206           | Jeff Davis | CMW       | Low  |            |               |               |
| 12/12/2005 |       | Limpia     | N30.38.147 | W104.08.298 | 6206           | Jeff Davis | CMW       | Low  |            |               |               |
| 1/14/2005  |       | Limpia     | N30.38.147 | W104.08.298 | 6206           | Jeff Davis | CMW       | Low  |            | 9             | 6.87          |
| 5/17/2005  |       | Limpia     | N30.38.147 | W104.08.298 | 6206           | Jeff Davis | CMW       | Low  |            | 28            | 17.25         |
| 8/30/2006  |       | Limpia     | N30.38.147 | W104.08.298 | 6206           | Jeff Davis | CMW       | Low  |            | 25.4          | 17.74         |
| 8/31/2006  | 10:30 | Lower Tuly | N30.38.707 | W104.04.864 | 5108           | Jeff Davis | CMW       | Low  |            | 26.1          | 19.15         |
| 8/31/2006  | 10:30 | Lower Tuly | N30.38.707 | W104.04.864 | 5108           | Jeff Davis | CMW       | Med  | 1.98       | 26.1          | 19.11         |
| 3/15/2006  | 3:00  | Lower Tuly | N30.38.707 | W104.04.864 | 5108           | Jeff Davis | CMW       | Low  |            | 21.9          | 12.26         |
| 3/15/2006  | 3:00  | Lower Tuly | N30.38.707 | W104.04.864 | 5108           | Jeff Davis | CMW       | Low  |            | 21.9          | 13.98         |
| 12/5/2005  |       | Lower Tuly | N30.38.707 | W104.04.864 | 5108           | Jeff Davis | CMW       | Low  |            |               |               |
| 12/5/2005  |       | Lower Tuly | N30.38.707 | W104.04.864 | 5108           | Jeff Davis | CMW       | Low  |            |               |               |
| 12/5/2005  |       | Lower Tuly | N30.38.707 | W104.04.864 | 5108           | Jeff Davis | CMW       | Low  |            |               |               |
| 8/18/2005  | 10:15 | Lower Tuly | N30.38.707 | W104.04.864 | 5108           | Jeff Davis | CMW       | Low  |            |               | 17.56         |
| 10/15/2004 |       | Manzanita  | N31.54.613 | W104.47.874 | 5529           | Culberson  | CDS       | Low  |            | 29            | 17.6          |
| 4/16/2005  |       | Manzanita  | N31.54.613 | W104.47.874 | 5529           | Culberson  | CDS       | Low  |            | 13            | 6.82          |
| 5/18/2005  |       | Manzanita  | N31.54.613 | W104.47.874 | 5529           | Culberson  | CDS       | Low  |            | 27            | 21.1          |
| 8/20/2005  | 7:00  | Manzanita  | N31.54.613 | W104.47.874 | 5529           | Culberson  | CDS       | Low  |            |               | 20.76         |
| 3/10/2006  | 2:54  | McKinney   | N29.24.502 | W103.05.261 | 2874           | Brewster   | CLMB      | Low  |            | 28.9          | 17.65         |
| 3/10/2006  | 2:54  | McKinney   | N29.24.502 | W103.05.261 | 2874           | Brewster   | CLMB      | Low  |            | 28.9          | 17.65         |
| 10/8/2004  |       | McKinney   | N29.24.502 | W103.05.261 | 2874           | Brewster   | CLMB      | Low  |            |               | 24.28         |
| 3/11/2005  |       | McKinney   | N29.24.502 | W103.05.261 | 2874           | Brewster   | CLMB      | Low  | 0.09       |               | 14.22         |
| 8/28/2006  | 10:03 | Mule Ear   | N29.09.742 | W103.24.499 | 3032           | Brewster   | CLMB      | Low  |            | 20.6          | 25.33         |
| 3/11/2006  | 11:44 | Mule Ear   | N29.09.742 | W103.24.499 | 3032           | Brewster   | CLMB      | Low  |            | 32.2          | 22.9          |
| 12/14/2005 |       | Mule Ear   | N29.09.742 | W103.24.499 | 3032           | Brewster   | CLMB      | Low  |            |               |               |
| 1/7/2006   | 10:40 | Mystery    | -          | -           | 1431           | Terrell    | CLMB      |      |            | 15            | 12.79         |
| 8/29/2006  | 3:02  | North      | N29.52.140 | W104.20.470 | 4083           | Presidio   | CLMB      | Low  |            | 26.8          | 23.02         |
| 8/27/2006  | 12:58 | Oak        | N29.16.924 | W103.20.205 | 4055           | Brewster   | CLMB      | Med  |            | 26.4          | 20.19         |
| 8/27/2006  | 12:58 | Oak        | N29.16.924 | W103.20.205 | 4055           | Brewster   | CLMB      | Med  |            | 26.4          | 20.19         |
| 3/11/2006  | 3:07  | Oak        | N29.16.924 | W103.20.205 | 4055           | Brewster   | CLMB      | Med  | 0.00       | 34.3          | 19.99         |
| 12/15/2005 | 7:55  | Oak        | N29.16.924 | W103.20.205 | 4055           | Brewster   | CLMB      | Med  |            | 8.5           | 17.46         |
| 12/15/2005 | 7:55  | Oak        | N29.16.924 | W103.20.205 | 4055           | Brewster   | CLMB      | Med  |            | 8.5           | 17.46         |

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### Individual Sample Data

| Date       | Time  | Site               | Latitude   | Longitude   | Elevation (ft) | County     | Ecoregion | Flow | Flow (cfs) | Air Temp (°C) | H2O Temp (°C) |
|------------|-------|--------------------|------------|-------------|----------------|------------|-----------|------|------------|---------------|---------------|
| 10/9/2004  |       | Oak                | N29.16.924 | W103.20.205 | 4055           | Brewster   | CLMB      | Med  |            |               | 19.49         |
| 3/11/2005  |       | Oak                | N29.16.924 | W103.20.205 | 4055           | Brewster   | CLMB      | Med  |            |               | 17.03         |
| 5/15/2005  |       | Oak                | N29.16.924 | W103.20.205 | 4055           | Brewster   | CLMB      | Med  | 0.1132     | 21            | 17.92         |
| 1/11/2007  | 2:36  | Ojito Adentro      | N29.29.563 | W104.03.535 | 3798           | Presidio   | CLMB      | Low  |            | 20.2          | 18.45         |
| 8/29/2006  | 5:37  | Ojo Carrizal       | N29.50.379 | W104.19.751 | 4045           | Presidio   | CLMB      | Low  | 0.07       | 27.2          | 23.95         |
| 8/27/2006  | 9:59  | Pena               | N29.12.195 | W103.30.276 | 2500           | Brewster   | CDG       | Low  |            | 27.1          | 24.79         |
| 3/12/2006  | 9:28  | Pena               | N29.12.195 | W103.30.276 | 2500           | Brewster   | CDG       | Low  | 0.01       | 23.6          | 18.77         |
| 3/12/2006  | 9:28  | Pena               | N29.12.195 | W103.30.276 | 2500           | Brewster   | CDG       | Low  | 0.01       | 23.6          | 18.77         |
| 3/9/2006   | 1:06  | Post               | N30.09.452 | W103.17.164 | 2208           | Brewster   | CDG       | Med  | 0.00       | 27            | 11.69         |
| 12/15/2005 | 4:37  | Post               | N30.09.452 | W103.17.164 | 2208           | Brewster   | CDG       | Med  |            | 12.5          | 7.78          |
| 10/10/2004 |       | Post               | N30.09.452 | W103.17.164 | 2208           | Brewster   | CDG       | Med  |            | 28            | 15.78         |
| 3/11/2005  |       | Post               | N30.09.452 | W103.17.164 | 2208           | Brewster   | CDG       | Med  | 0.62       |               | 10.92         |
| 5/13/2005  |       | Post               | N30.09.452 | W103.17.164 | 2208           | Brewster   | CDG       | Med  | 0.31       | 29            | 21.18         |
| 8/16/2005  | 12:30 | Post               | N30.09.452 | W103.17.164 | 2208           | Brewster   | CDG       | Med  | 0.33       | 85-90         | 20.26         |
| 3/17/2006  | 3:35  | Smith              | N31.55.115 | W104.48.396 | 5997           | Culberson  | AMW       | Low  | 0.48       | 22.7          | 14.85         |
| 3/17/2006  | 3:35  | Smith              | N31.55.115 | W104.48.396 | 5997           | Culberson  | AMW       | Low  | 0.48       | 22.7          | 14.85         |
| 12/10/2005 | 2:15  | Smith              | N31.55.115 | W104.48.396 | 5997           | Culberson  | AMW       | Low  | 0.00       | 14            | 14.74         |
| 12/10/2005 | 2:15  | Smith              | N31.55.115 | W104.48.396 | 5997           | Culberson  | AMW       | Low  | 0.00       | 14            | 14.74         |
| 10/15/2004 |       | Smith              | N31.55.115 | W104.48.396 | 5997           | Culberson  | AMW       | Low  |            | 25            | 14.75         |
| 4/16/2005  |       | Smith              | N31.55.115 | W104.48.396 | 5997           | Culberson  | AMW       | Low  | 0.18       | 18            | 14.83         |
| 5/18/2005  |       | Smith              | N31.55.115 | W104.48.396 | 5997           | Culberson  | AMW       | Low  | 0.21       | 25            | 14.99         |
| 8/20/2005  | 6:30  | Smith              | N31.55.115 | W104.48.396 | 5997           | Culberson  | AMW       | Low  | 0.00       |               | 15.12         |
| 3/12/2006  | 5:00  | Smith House        | N29.25.792 | W103.53.818 | 4016           | Presidio   | CLMB      | Low  |            | 32.2          | 19.41         |
| 12/14/2005 |       | Smith House        | N29.25.792 | W103.53.818 | 4016           | Presidio   | CLMB      | Low  |            |               |               |
| 12/14/2005 |       | Smith House        | N29.25.792 | W103.53.818 | 4016           | Presidio   | CLMB      | Low  |            |               |               |
| 5/15/2005  |       | Smith House        | N29.25.792 | W103.53.818 | 4016           | Presidio   | CLMB      | Low  | 0.09       | 22            | 21.63         |
| 8/17/2005  | 11:15 | Smith House        | N29.25.792 | W103.53.818 | 4016           | Presidio   | CLMB      | Low  |            | 34            | 23.43         |
| 1/5/2006   | 11:00 | Son of Hot Springs | N29.44.907 | W102.32.442 | 1456           | Brewster   | CLMB      | High | 10.74      |               | 31.88         |
| 3/14/2006  | 4:10  | Terlingua          | N29 52.495 | W103 45.110 | 3843           | Brewster   | CDG       | Low  | 0.00       | 24.9          | 15.52         |
| 3/14/2006  | 4:10  | Terlingua          | N29 52.495 | W103 45.110 | 3843           | Brewster   | CDG       | Low  | 0.00       | 24.9          | 15.52         |
| 12/13/2005 |       | Terlingua          | N29 52.495 | W103 45.110 | 3843           | Brewster   | CDG       | Low  |            |               |               |
| 8/19/2005  | 4:01  | Terlingua          | N29 52.495 | W103 45.110 | 3843           | Brewster   | CDG       | Low  |            |               | 25.9          |
| 8/30/2006  | 2:15  | Toab               | N30.38.351 | W104.10.740 | 7049           | Jeff Davis | CMW       | Low  | 0.34       | 22.1          | 14.19         |
| 3/16/2006  | 9:52  | Toab               | N30.38.351 | W104.10.740 | 7049           | Jeff Davis | CMW       | Low  |            | 13.3          | 5.83          |
| 1/14/2005  |       | Toab               | N30.38.351 | W104.10.740 | 7049           | Jeff Davis | CMW       | Low  |            | 8             | 5.2           |
| 3/17/2006  | 12:45 | Upper Pine         | N31.54.196 | W104.49.069 | 6005           | Culberson  | AMW       | Low  |            | 28.7          | 15.46         |

## Appendix 2

### Individual Sample Data

| Date       | Time  | Site       | Latitude   | Longitude   | Elevation (ft) | County     | Ecoregion | Flow | Flow (cfs) | Air Temp (°C) | H2O Temp (°C) |
|------------|-------|------------|------------|-------------|----------------|------------|-----------|------|------------|---------------|---------------|
| 3/17/2006  | 12:45 | Upper Pine | N31.54.196 | W104.49.069 | 6005           | Culberson  | AMW       | Low  |            | 28.7          | 15.46         |
| 12/10/2005 |       | Upper Pine | N31.54.196 | W104.49.069 | 6005           | Culberson  | AMW       | Low  |            |               |               |
| 12/10/2005 |       | Upper Pine | N31.54.196 | W104.49.069 | 6005           | Culberson  | AMW       | Low  |            |               |               |
| 8/20/2005  | 4:00  | Upper Pine | N31.54.196 | W104.49.069 | 6005           | Culberson  | AMW       | Low  |            |               | 15.57         |
| 10/15/2004 |       | Upper Pine | N31.54.196 | W104.49.069 | 6005           | Culberson  | AMW       | Low  |            | 29            | 14.81         |
| 4/16/2005  |       | Upper Pine | N31.54.196 | W104.49.069 | 6005           | Culberson  | AMW       | Low  | 0.16       | 15            | 14.94         |
| 5/18/2005  |       | Upper Pine | N31.54.196 | W104.49.069 | 6005           | Culberson  | AMW       | Low  | 0.0947     | 27            | 15.55         |
| 8/18/2005  | 13:17 | Upper Tuly | N30.38.907 | W104.06.584 | 6134           | Jeff Davis | CMW       | Low  |            |               | 18            |
| 8/15/2005  | 4:30  | Vanderbeek | N30.28.124 | W101.50.216 | 2042           | Terrell    | STK       | Med  | 0.54       |               | 24.15         |
| 8/19/2005  | 9:52  | Whirlwind  | N30.38.890 | W104.06.588 | 4045           | Brewster   | CLMB      | Low  |            | 85-90         | 21.36         |
| 12/13/2005 |       | Whirlwind  | N30.38.890 | W104.06.588 | 4045           | Brewster   | CLMB      | Low  |            |               |               |
| 3/14/2006  | 9:50  | Whirlwind  | N30.38.890 | W104.06.588 | 4045           | Brewster   | CLMB      | Low  |            | 14.5          | 19.59         |
| 3/14/2006  |       | Whirlwind  | N30.38.890 | W104.06.588 | 4045           | Brewster   | CLMB      | Low  |            |               |               |

## Appendix 2

### Individual Sample Data

| Date       | Time  | Site         | Invert Sample# | Tot Orgs | Pool | Run | Box | NA | SpC (ms/cm) | DO (mg/L) | pH    | Total HCO <sub>3</sub> | TDS | SiO <sub>2</sub> | Cl  |
|------------|-------|--------------|----------------|----------|------|-----|-----|----|-------------|-----------|-------|------------------------|-----|------------------|-----|
| 1/4/2006   | 3:26  | Asa Jones    | 93             | 31       | 0    | 1   | 0   | 0  | 791         | 5.83      | 7.1   | 196                    | 503 | 19.8             | 130 |
| 8/22/2006  | 1:39  | Blue         | 18             | 294      | 0    | 1   | 0   | 0  | 500         | 6.05      | 7.34  | 226                    | 285 | 8.7              | 16  |
| 8/30/2006  | 10:58 | Bridge       | 29             | 200      | 0    | 1   | 0   | 0  | 114         | 6.48      | 7.08  | 34                     | 88  | 31.3             | 4   |
| 3/16/2006  | 12:25 | Bridge       | 30             | 109      | 0    | 0   | 1   | 0  | 307         | 10.44     | 7.58  |                        | 199 |                  |     |
| 3/16/2006  | 12:25 | Bridge       | 31             | 151      | 0    | 1   | 0   | 0  | 307         | 10.44     | 7.58  |                        | 199 |                  |     |
| 1/14/2005  |       | Bridge       |                |          | 0    | 0   | 0   | 1  | 239         | 3.77      | 6.12  | 82                     | 153 | 38               | 9   |
| 5/19/2005  |       | Bridge       |                |          | 0    | 0   | 0   | 1  | 315         | 5.02      | 12.52 |                        |     |                  |     |
| 8/30/2006  |       | Bridge       |                |          | 0    | 0   | 1   | 0  | 143         | 2.55      | 6.07  | 56                     | 146 | 27               | 4   |
| 8/27/2006  | 3:40  | Burro        | 66             | 57       | 1    | 0   | 0   | 0  | 586         | 3.95      | 8.6   | 128                    | 334 | 22.9             | 41  |
| 3/11/2006  | 9:09  | Burro        | 67             | 298      | 1    | 0   | 0   | 0  | 486         | 4.04      | 7.45  |                        | 316 |                  |     |
| 10/9/2004  |       | Burro        |                |          | 0    | 0   | 0   | 1  | 477         | 3.77      | 7.7   | 146                    | 319 | 22.7             | 22  |
| 8/26/2006  | 5:20  | Buttrill     | 51             | 346      | 1    | 0   | 0   | 0  | 485         | 5.44      | 8.74  | 208                    | 310 | 33.9             | 8   |
| 8/26/2006  | 5:20  | Buttrill     | 52             | 113      | 0    | 1   | 0   | 0  | 485         | 5.44      | 8.74  |                        |     |                  |     |
| 3/10/2006  | 10:50 | Buttrill     | 53             | 84       | 1    | 0   | 0   | 0  | 487         | 4.14      | 7.29  |                        | 317 |                  |     |
| 3/10/2006  | 10:50 | Buttrill     | 54             | 75       | 0    | 1   | 0   | 0  | 487         | 4.14      | 7.29  |                        |     |                  |     |
| 12/15/2005 | 1:25  | Buttrill     | 55             | 51       | 1    | 0   | 0   | 0  | 455         | 4.65      | 7.34  | 209                    | 812 | 8.16             | 67  |
| 12/15/2005 | 1:25  | Buttrill     | 56             | 37       | 0    | 1   | 0   | 0  | 455         | 4.65      | 7.34  |                        |     |                  |     |
| 8/16/2005  | 2:43  | Buttrill     | 91             | 135      | 0    | 0   | 0   | 1  | 447         | 7.15      |       |                        |     |                  |     |
| 3/11/2005  |       | Buttrill     |                |          | 0    | 0   | 0   | 1  | 520         | 1.6       | 6.9   |                        |     |                  |     |
| 5/14/2005  |       | Buttrill     |                |          | 0    | 0   | 0   | 1  | 479         |           | 5.55  |                        |     |                  |     |
| 3/9/2006   | 8:54  | Caroline     | 84             | 215      | 1    | 0   | 0   | 0  | 871         | 4.66      | 7.27  |                        | 566 |                  |     |
| 12/16/2005 | 8:15  | Caroline     | 86             | 68       | 1    | 0   | 0   | 0  | 808         | 9.84      | 7.31  |                        |     |                  |     |
| 8/15/2005  | 5:30  | Caroline     | 90             | 496      | 0    | 0   | 0   | 1  | 819         | 8.13      |       |                        |     |                  |     |
| 8/12/2004  |       | Caroline     |                |          | 0    | 0   | 0   | 1  | 781         | 4.35      | 5.77  | 218                    | 534 | 3.92             | 67  |
| 1/13/2005  |       | Caroline     |                |          | 0    | 0   | 0   | 1  | 876         | 5.42      | 6.14  |                        |     |                  |     |
| 5/13/2005  |       | Caroline     |                |          | 0    | 0   | 0   | 1  | 826         |           | 6.21  |                        |     |                  |     |
| 1/14/2007  | 21:00 | Caroline     |                |          | 0    | 1   | 0   | 0  | 879         | 5.75      | 7.43  | 226                    | 517 | 17.8             | 76  |
| 1/14/2007  | 21:00 | Caroline     |                |          | 0    | 1   | 0   | 0  | 879         | 5.74      | 7.41  |                        |     | 17.1             |     |
| 3/9/2006   | 7:37  | Caroline-Crk | 83             | 184      | 0    | 1   | 0   | 0  | 867         | 6.18      | 7.56  |                        | 563 |                  |     |
| 12/16/2005 | 9:30  | Caroline-Crk | 85             | 412      | 0    | 1   | 0   | 0  | 802         | 10.84     | 7.59  |                        |     |                  |     |
| 1/12/2007  | 3:06  | Cave         | 101            | 19       | 0    | 0   | 1   | 0  | 407         | 4.4       | 8.41  | 166                    | 359 | 50.1             | 5   |
| 3/18/2006  | 7:35  | Choza        | 13             | 97       | 1    | 0   | 0   | 0  | 535         | 6.05      | 7.46  |                        | 535 |                  |     |
| 3/18/2006  | 7:35  | Choza        | 14             | 166      | 0    | 1   | 0   | 0  | 535         | 6.05      | 7.46  |                        |     |                  |     |
| 12/10/2005 | 9:00  | Choza        | 15             | 149      | 1    | 0   | 0   | 0  | 504         | 7.68      | 7.69  |                        |     |                  |     |
| 12/10/2005 | 9:00  | Choza        | 16             | 122      | 0    | 1   | 0   | 0  | 504         | 7.68      | 7.69  |                        |     |                  |     |
| 10/15/2004 |       | Choza        |                |          | 0    | 0   | 0   | 1  | 491         | 10.67     | 7.78  | 270                    | 280 | 4.41             | 9   |

## Appendix 2

### Individual Sample Data

| Date       | Time  | Site           | Invert Sample# | Tot Orgs | Pool | Run | Box | NA | SpC (ms/cm) | DO (mg/L) | pH   | Total HCO <sub>3</sub> | TDS | SiO <sub>2</sub> | Cl |
|------------|-------|----------------|----------------|----------|------|-----|-----|----|-------------|-----------|------|------------------------|-----|------------------|----|
| 4/16/2005  |       | Choza          |                |          | 0    | 0   | 0   | 1  | 570         | 8.69      | 6.55 | 278                    | 256 | 6.9              | 9  |
| 5/18/2005  |       | Choza          |                |          | 0    | 0   | 0   | 1  | 551         | 1.98      | 6.42 |                        |     |                  |    |
| 8/20/2005  | 20:29 | Choza          | NA             | 523      | 0    | 0   | 0   | 1  | 532         | 7.91      |      |                        |     |                  |    |
| 8/17/2005  | 3:00  | Cienaga        | 26             | 131      | 1    | 0   | 0   | 0  | 496         |           | 7.33 |                        |     |                  |    |
| 5/16/2005  |       | Cienaga        |                |          | 0    | 0   | 0   | 1  | 482         | 4.96      | 6.72 | 208                    | 339 | 54.7             | 10 |
| 8/28/2006  | 3:53  | Cinco Tinajas  | 50             | 20       | 1    | 0   | 0   | 0  | 235         | 5.43      | 8.77 | 92                     | 148 | 20.5             | 4  |
| 9/1/2006   | 10:50 | Cottonwood     | 82             | 371      | 1    | 0   | 0   | 0  | 534         | 3.47      | 7.07 | 252                    | 292 | 36.6             | 5  |
| 9/1/2006   | 1:42  | Davenport      | 81             | 159      | 1    | 0   | 0   | 0  | 441         | 5.85      | 7.61 | 212                    | 275 | 46.7             | 6  |
| 8/25/2006  | 9:55  | Dolan          | 17             | 318      | 0    | 1   | 0   | 0  | 487         | 7.72      | 7.45 | 216                    | 276 | 7.2              | 16 |
| 9/1/2006   | 4:06  | Duff           | 76             | 162      | 0    | 1   | 0   | 0  | 858         | 3.45      | 7.06 | 370                    | 517 | 52.3             | 25 |
| 3/14/2006  | 1:25  | Duff           | 77             | 71       | 1    | 0   | 0   | 0  | 809         | 3.76      | 7.75 |                        | 526 |                  |    |
| 3/14/2006  | 1:25  | Duff           | 78             | 96       | 0    | 1   | 0   | 0  | 809         | 3.76      | 7.75 |                        |     |                  |    |
| 12/13/2005 |       | Duff           | 79             | 227      | 1    | 0   | 0   | 0  |             |           |      |                        |     |                  |    |
| 12/13/2005 |       | Duff           | 80             | 120      | 0    | 1   | 0   | 0  |             |           |      |                        |     |                  |    |
| 8/19/2005  | 12:24 | Duff           |                |          | 0    | 0   | 0   | 1  | 811         | 6.54      | 6.6  | 356                    | 543 | 61.6             | 9  |
| 3/9/2006   | 5:08  | Glenn          | 65             | 205      | 1    | 0   | 0   | 0  | 728         | 3.31      | 7.15 |                        | 473 |                  |    |
| 10/8/2004  |       | Glenn          |                |          | 0    | 0   | 0   | 1  | 831         | 4.49      | 7.27 | 332                    | 528 | 18.6             | 9  |
| 3/12/2005  |       | Glenn          |                |          | 0    | 0   | 0   | 1  | 755         | 4.08      | 7.56 |                        |     |                  |    |
| 3/17/2006  | 9:30  | Guadalupe      | 1              | 61       | 1    | 0   | 0   | 0  | 592         | 7.8       | 7.69 |                        | 385 |                  |    |
| 3/17/2006  | 9:30  | Guadalupe      | 2              | 174      | 0    | 1   | 0   | 0  | 592         | 7.8       | 7.69 |                        |     |                  |    |
| 12/10/2005 | 1:09  | Guadalupe      | 3              | 103      | 1    | 0   | 0   | 0  | 498         | 8.7       | 7.85 |                        |     |                  |    |
| 12/10/2005 | 1:09  | Guadalupe      | 4              | 65       | 0    | 1   | 0   | 0  | 498         | 8.7       | 7.85 |                        |     |                  |    |
| 10/16/2004 |       | Guadalupe      |                |          | 0    | 0   | 0   | 1  | 494         | 0.38      | 7.88 | 300                    | 320 | 7.19             | 9  |
| 4/16/2005  |       | Guadalupe      |                |          | 0    | 0   | 0   | 1  | 553         | 7.55      | 6.24 | 264                    | 277 | 8.3              | 9  |
| 8/20/2005  | 1:19  | Guadalupe      |                | 196      | 0    | 0   | 0   | 1  | 566         | 7.09      |      |                        |     |                  |    |
| 1/12/2007  | 1:03  | High Elevation | 28             | 267      | 1    | 0   | 0   | 0  | 538         | 6.56      | 8.17 | 238                    | 359 | 34.6             | 5  |
| 8/29/2006  | 12:15 | Indian Cave    | 20             | 744      | 0    | 1   | 0   | 0  | 512         | 3.48      | 7.31 | 232                    | 318 | 32.6             | 11 |
| 3/13/2006  | 12:44 | Indian Cave    | 21             | 198      | 1    | 0   | 0   | 0  | 510         | 3.45      | 7.42 |                        | 331 |                  |    |
| 3/13/2006  | 12:44 | Indian Cave    | 22             | 85       | 0    | 1   | 0   | 0  | 510         | 3.45      | 7.42 |                        |     |                  |    |
| 1/3/2006   | 2:25  | Kyle           | 94             | 7        | 0    | 0   | 1   | 0  | 872         | 5.6       | 7.14 | 210                    | 546 | 19.8             | 59 |
| 8/29/2006  | 11:15 | La Morita      | 23             | 17       | 1    | 0   | 0   | 0  | 1067        | 4.43      | 7.2  | 512                    | 727 | 70.5             | 33 |
| 3/13/2006  | 10:25 | La Morita      | 24             | 76       | 1    | 0   | 0   | 0  | 698         | 4.61      | 7.49 |                        | 454 |                  |    |
| 3/13/2006  | 10:25 | La Morita      | 25             | 134      | 0    | 1   | 0   | 0  | 698         | 4.61      | 7.49 |                        |     |                  |    |
| 8/11/2004  |       | La Morita      |                |          | 0    | 0   | 0   | 1  | 401         | 2.21      | 6.21 | 174                    | 275 | 10.2             | 9  |
| 3/13/2005  |       | La Morita      |                |          | 0    | 0   | 0   | 1  | 452         | 8.07      | 7.16 |                        |     |                  |    |
| 1/11/2007  | 4:25  | Las Cuevas     | 49             | 139      | 1    | 0   | 0   | 0  | 585         | 1.41      | 7.28 | 262                    | 376 | 53.1             | 12 |

## Appendix 2

### Individual Sample Data

| Date       | Time  | Site       | Invert Sample# | Tot Orgs | Pool | Run | Box | NA | SpC (ms/cm) | DO (mg/L) | pH   | Total HCO <sub>3</sub> | TDS | SiO <sub>2</sub> | Cl  |
|------------|-------|------------|----------------|----------|------|-----|-----|----|-------------|-----------|------|------------------------|-----|------------------|-----|
| 8/11/2004  |       | Las Cuevas |                |          | 0    | 0   | 0   | 1  | 566         | 1.65      | 6.35 | 256                    | 382 | 12.2             | 10  |
| 3/13/2005  |       | Las Cuevas |                |          | 0    | 0   | 0   | 1  | 627         | 1.25      | 6.35 |                        |     |                  |     |
| 5/15/2005  |       | Las Cuevas |                |          | 0    | 0   | 0   | 1  | 579         |           | 6.45 |                        |     |                  |     |
| 3/15/2006  | 11:10 | Limpia     | 32             | 97       | 1    | 0   | 0   | 0  | 252         | 5.68      | 7.12 |                        | 164 |                  |     |
| 3/15/2006  | 11:10 | Limpia     | 33             | 201      | 0    | 1   | 0   | 0  | 252         | 5.68      | 7.12 |                        |     |                  |     |
| 12/12/2005 |       | Limpia     | 34             | 168      | 1    | 0   | 0   | 0  |             |           |      |                        |     |                  |     |
| 12/12/2005 |       | Limpia     | 35             | 415      | 0    | 1   | 0   | 0  |             |           |      |                        |     |                  |     |
| 1/14/2005  |       | Limpia     |                |          | 0    | 0   | 0   | 1  | 415         | 3.61      | 6    | 188                    | 268 | 18.6             | 9   |
| 5/17/2005  |       | Limpia     |                |          | 0    | 0   | 0   | 1  | 419         | 3.46      | 6.26 |                        |     |                  |     |
| 8/30/2006  |       | Limpia     |                |          | 0    | 0   | 0   | 1  | 99          | 2.63      | 7.27 | 42                     | 101 | 16.1             | 4   |
| 8/31/2006  | 10:30 | Lower Tuly | 38             | 144      | 0    | 0   | 1   | 0  | 257         | 2.12      | 7    | 108                    | 165 | 30.2             | 4   |
| 8/31/2006  | 10:30 | Lower Tuly | 39             | 238      | 1    | 0   | 0   | 0  | 219         | 3.38      | 7.27 | 88                     | 156 | 30.9             | 4   |
| 3/15/2006  | 3:00  | Lower Tuly | 40             | 42       | 0    | 0   | 1   | 0  | 442         | 7.31      | 7.42 |                        | 442 |                  |     |
| 3/15/2006  | 3:00  | Lower Tuly | 41             | 92       | 1    | 0   | 0   | 0  | 380         | 5.63      | 7.33 |                        | 247 |                  |     |
| 12/5/2005  |       | Lower Tuly | 42             | 67       | 0    | 0   | 1   | 0  |             |           |      |                        |     |                  |     |
| 12/5/2005  |       | Lower Tuly | 43             | 107      | 1    | 0   | 0   | 0  |             |           |      |                        |     |                  |     |
| 12/5/2005  |       | Lower Tuly | 44             | 108      | 0    | 1   | 0   | 0  |             |           |      |                        |     |                  |     |
| 8/18/2005  | 10:15 | Lower Tuly |                |          | 0    | 0   | 1   | 0  | 209         | 1.86      |      | 88                     | 197 | 43.3             | 9   |
| 10/15/2004 |       | Manzanita  |                |          | 1    | 0   | 0   | 0  | 474         | 19.4      | 6.41 | 260                    | 259 | 3.91             | 9   |
| 4/16/2005  |       | Manzanita  |                |          | 1    | 0   | 0   | 0  | 540         | 9.92      | 7.31 | 266                    | 261 | 3.8              | 9   |
| 5/18/2005  |       | Manzanita  |                |          | 1    | 0   | 0   | 0  | 475         | 4.53      | 6.66 |                        |     |                  |     |
| 8/20/2005  | 7:00  | Manzanita  |                |          | 1    | 0   | 0   | 0  | 538         | 13.6      |      |                        |     |                  |     |
| 3/10/2006  | 2:54  | McKinney   | 71             | 49       | 1    | 0   | 0   | 0  | 773         | 3.27      | 7.09 |                        | 502 |                  |     |
| 3/10/2006  | 2:54  | McKinney   | 72             | 71       | 0    | 1   | 0   | 0  | 773         | 3.27      | 7.09 |                        |     |                  |     |
| 10/8/2004  |       | McKinney   |                |          | 0    | 0   | 0   | 1  | 1021        | 5.29      | 7.31 | 278                    | 693 | 25.1             | 33  |
| 3/11/2005  |       | McKinney   |                |          | 0    | 0   | 0   | 1  | 926         |           | 6.4  |                        |     |                  |     |
| 8/28/2006  | 10:03 | Mule Ear   | 62             | 122      | 1    | 0   | 0   | 0  | 574         | 6.43      | 7.66 | 280                    | 368 | 43.5             | 11  |
| 3/11/2006  | 11:44 | Mule Ear   | 63             | 207      | 1    | 0   | 0   | 0  | 575         | 6.58      | 7.62 | 262                    | 340 | 68.6             | 9   |
| 12/14/2005 |       | Mule Ear   | 64             | 125      | 1    | 0   | 0   | 0  |             |           |      |                        |     |                  |     |
| 1/7/2006   | 10:40 | Mystery    | 96             | 272      | 1    | 0   | 0   | 0  | 386         | 10.2      | 7.85 | 172                    | 225 | 13               | 117 |
| 8/29/2006  | 3:02  | North      | 19             | 444      | 1    | 0   | 0   | 0  | 370         | 5.14      | 7.39 | 176                    | 263 | 33.6             | 6   |
| 8/27/2006  | 12:58 | Oak        | 57             | 16       | 1    | 0   | 0   | 0  | 384         | 5.42      | 8.28 | 118                    | 221 | 20.7             | 9   |
| 8/27/2006  | 12:58 | Oak        | 58             | 62       | 0    | 1   | 0   | 0  | 384         | 5.42      | 8.28 |                        |     |                  |     |
| 3/11/2006  | 3:07  | Oak        | 59             | 216      | 0    | 1   | 0   | 0  | 387         | 6.75      | 7.63 | 252                    |     |                  |     |
| 12/15/2005 | 7:55  | Oak        | 60             | 61       | 1    | 0   | 0   | 0  | 383         | 8.73      | 8.01 |                        |     |                  |     |
| 12/15/2005 | 7:55  | Oak        | 61             | 70       | 0    | 1   | 0   | 0  | 383         | 8.73      | 8.01 |                        |     |                  |     |

## Appendix 2

### Individual Sample Data

| Date       | Time  | Site               | Invert Sample# | Tot Orgs | Pool | Run | Box | NA | SpC (ms/cm) | DO (mg/L) | pH   | Total HCO <sub>3</sub> | TDS | SiO <sub>2</sub> | Cl  |
|------------|-------|--------------------|----------------|----------|------|-----|-----|----|-------------|-----------|------|------------------------|-----|------------------|-----|
| 10/9/2004  |       | Oak                |                |          | 0    | 0   | 0   | 1  | 450         | 5.5       | 7.3  | 148                    | 287 | 12.8             | 10  |
| 3/11/2005  |       | Oak                |                |          | 0    | 0   | 0   | 1  | 474         | 0.06      | 7.63 |                        |     |                  |     |
| 5/15/2005  |       | Oak                |                |          | 0    | 0   | 0   | 1  | 392         |           | 6.05 |                        |     |                  |     |
| 1/11/2007  | 2:36  | Ojito Adentro      | 48             | 297      | 1    | 0   | 0   | 0  | 473         |           | 8.07 | 204                    | 329 | 52.9             | 8   |
| 8/29/2006  | 5:37  | Ojo Carrizal       | 27             | 312      | 0    | 1   | 0   | 0  | 379         | 3.83      | 7.11 | 174                    | 245 | 24.9             | 7   |
| 8/27/2006  | 9:59  | Pena               | 68             | 120      | 1    | 0   | 0   | 0  | 1097        | 3.12      | 8.26 | 308                    | 753 | 33               | 34  |
| 3/12/2006  | 9:28  | Pena               | 69             | 175      | 1    | 0   | 0   | 0  | 779         | 3.75      | 7.4  | 262                    | 538 | 45.5             | 25  |
| 3/12/2006  | 9:28  | Pena               | 70             | 98       | 0    | 1   | 0   | 0  | 779         | 3.75      | 7.4  |                        |     |                  |     |
| 3/9/2006   | 1:06  | Post               | 88             | 326      | 0    | 1   | 0   | 0  | 874         | 7.43      | 7.87 |                        |     |                  |     |
| 12/15/2005 | 4:37  | Post               | 89             | 142      | 0    | 1   | 0   | 0  | 882         | 10.06     | 7.97 |                        |     |                  |     |
| 10/10/2004 |       | Post               |                |          | 0    | 1   | 0   | 0  | 984         | 5.67      | 7.91 | 366                    | 581 | 7.96             | 9   |
| 3/11/2005  |       | Post               |                |          | 0    | 1   | 0   | 0  | 1021        | 10.89     | 7.23 |                        |     |                  |     |
| 5/13/2005  |       | Post               |                |          | 0    | 1   | 0   | 0  | 975         |           | 6.56 |                        |     |                  |     |
| 8/16/2005  | 12:30 | Post               |                |          | 0    | 1   | 0   | 0  | 928         | 4.17      |      |                        |     |                  |     |
| 3/17/2006  | 3:35  | Smith              | 9              | 196      | 1    | 0   | 0   | 0  | 544         | 6.84      | 7.3  |                        | 354 |                  |     |
| 3/17/2006  | 3:35  | Smith              | 10             | 192      | 0    | 1   | 0   | 0  | 544         | 6.84      | 7.3  |                        |     |                  |     |
| 12/10/2005 | 2:15  | Smith              | 11             | 103      | 1    | 0   | 0   | 0  | 512         | 8.78      | 7.6  |                        |     |                  |     |
| 12/10/2005 | 2:15  | Smith              | 12             | 165      | 0    | 1   | 0   | 0  | 512         | 8.78      | 7.6  |                        |     |                  |     |
| 10/15/2004 |       | Smith              |                |          | 0    | 0   | 0   | 1  | 475         | 12.55     | 7.31 | 276                    | 304 | 2.89             | 9   |
| 4/16/2005  |       | Smith              |                |          | 0    | 0   | 0   | 1  | 592         | 8.1       | 6.69 | 278                    | 266 | 5                | 9   |
| 5/18/2005  |       | Smith              |                |          | 0    | 0   | 0   | 1  | 559         | 4.02      | 6.5  |                        |     |                  |     |
| 8/20/2005  | 6:30  | Smith              | NA             | 593      | 0    | 0   | 0   | 1  | 536         | 8.85      | 8.9  |                        |     |                  |     |
| 3/12/2006  | 5:00  | Smith House        | 45             | 279      | 1    | 0   | 0   | 0  | 519         | 2.36      | 7.22 |                        | 337 |                  |     |
| 12/14/2005 |       | Smith House        | 46             | 168      | 1    | 0   | 0   | 0  |             |           |      |                        |     |                  |     |
| 12/14/2005 |       | Smith House        | 47             | 103      | 0    | 1   | 0   | 0  |             |           |      |                        |     |                  |     |
| 5/15/2005  |       | Smith House        |                |          | 0    | 0   | 0   | 1  | 549         |           | 6.55 | 252                    | 351 | 59.2             | 9   |
| 8/17/2005  | 11:15 | Smith House        |                |          | 0    | 0   | 0   | 1  | 557         | 3.05      | 9    |                        |     |                  |     |
| 1/5/2006   | 11:00 | Son of Hot Springs | 95             | 7        | 0    | 1   | 0   | 0  | 746         | 5.82      | 7.1  | 196                    | 457 | 22.1             | 149 |
| 3/14/2006  | 4:10  | Terlingua          | 73             | 55       | 1    | 0   | 0   | 0  | 717         | 10.18     | 8.62 |                        | 466 |                  |     |
| 3/14/2006  | 4:10  | Terlingua          | 74             | 89       | 0    | 1   | 0   | 0  | 717         | 10.18     | 8.62 |                        |     |                  |     |
| 12/13/2005 |       | Terlingua          | 75             | 95       | 1    | 0   | 0   | 0  |             |           |      |                        |     |                  |     |
| 8/19/2005  | 4:01  | Terlingua          |                |          | 0    | 0   | 0   | 1  | 383         | 7.15      |      | 176                    | 350 | 41.6             | 11  |
| 8/30/2006  | 2:15  | Toab               | 36             | 55       | 0    | 1   | 0   | 0  | 74          | 4.66      | 6.25 | 25                     | 87  | 20               | 4   |
| 3/16/2006  | 9:52  | Toab               | 37             | 174      | 1    | 0   | 0   | 0  | 137         | 15.64     | 7.99 |                        | 89  |                  |     |
| 1/14/2005  |       | Toab               |                |          | 0    | 0   | 0   | 1  | 109         | 8         | 6.66 | 34                     | 105 | 14.6             | 9   |
| 3/17/2006  | 12:45 | Upper Pine         | 5              | 160      | 1    | 0   | 0   | 0  | 543         | 6.42      | 7.33 |                        | 353 |                  |     |

**Appendix 2**  
**Individual Sample Data**

| Date       | Time  | Site       | Invert Sample# | Tot Orgs | Pool | Run | Box | NA | SpC (ms/cm) | DO (mg/L) | pH   | Total HCO <sub>3</sub> | TDS | SiO <sub>2</sub> | Cl |
|------------|-------|------------|----------------|----------|------|-----|-----|----|-------------|-----------|------|------------------------|-----|------------------|----|
| 3/17/2006  | 12:45 | Upper Pine | 6              | 333      | 0    | 1   | 0   | 0  | 543         | 6.42      | 7.33 |                        |     |                  |    |
| 12/10/2005 |       | Upper Pine | 7              | 95       | 1    | 0   | 0   | 0  |             |           |      |                        |     |                  |    |
| 12/10/2005 |       | Upper Pine | 8              | 46       | 0    | 1   | 0   | 0  |             |           |      |                        |     |                  |    |
| 8/20/2005  | 4:00  | Upper Pine | 92             | 1310     | 0    | 0   | 0   | 1  | 514         | 6.11      |      |                        |     |                  |    |
| 10/15/2004 |       | Upper Pine |                |          | 0    | 0   | 0   | 1  | 570         | 7.18      | 7.6  | 266                    | 307 | 4.43             | 9  |
| 4/16/2005  |       | Upper Pine |                |          | 0    | 0   | 0   | 1  | 567         | 6.18      | 6.7  | 276                    | 291 | 6.7              | 9  |
| 5/18/2005  |       | Upper Pine |                |          | 0    | 0   | 0   | 1  | 532         | 3.52      | 6.47 |                        |     |                  |    |
| 8/18/2005  | 13:17 | Upper Tuly | 102            | 308      | 0    | 0   | 1   | 0  | 322         | 7.66      |      | 142                    | 289 | 35.6             | 9  |
| 8/15/2005  | 4:30  | Vanderbeek | 87             | 141      | 1    | 0   | 0   | 0  | 933         | 2.81      |      | 236                    | 584 | 25               | 94 |
| 8/19/2005  | 9:52  | Whirlwind  | 97             | 162      | 0    | 0   | 0   | 1  | 668         | 7.2       | 7.8  | 250                    | 437 | 51.8             | 26 |
| 12/13/2005 |       | Whirlwind  | 98             | 30       | 1    | 0   | 1   | 0  |             |           |      |                        |     |                  |    |
| 3/14/2006  | 9:50  | Whirlwind  | 99             | 35       | 0    | 0   | 1   | 0  | 651         | 4.02      | 7.93 |                        |     | 423              |    |
| 3/14/2006  |       | Whirlwind  | 100            | 151      | 0    | 1   | 0   | 0  |             |           |      |                        |     |                  |    |

## Appendix 2

### Individual Sample Data

| Date       | Time  | Site         | (SO4)2- | NO3-, N | NO2+, N | F   | Br   | CaCO3 | P (ppb) | Ca   | Na   | K    | Mg   | Fe    | Al    | As    | Cd    | Cr    |
|------------|-------|--------------|---------|---------|---------|-----|------|-------|---------|------|------|------|------|-------|-------|-------|-------|-------|
| 1/4/2006   | 3:26  | Asa Jones    | 50      | 1.5     | 0.09    | 1.6 | 0.19 | 234   | 11.4    | 62.5 | 58.8 | 4.6  | 19   | 0.2   | 0.07  | 0.01  |       | 0.09  |
| 8/22/2006  | 1:39  | Blue         | 9       | 1.9     | 0.09    | 0.3 | 0.04 | 227   | 10      | 65.8 | 14.5 | 1.2  | 15.2 | 0.4   | 0.07  | 0.01  | 0.009 | 0.09  |
| 8/30/2006  | 10:58 | Bridge       | 14      | 0.09    | 0.09    | 0.3 | 0.04 | 33    | 410     | 8.1  | 7.3  | 1.1  | 3.1  |       |       |       |       |       |
| 3/16/2006  | 12:25 | Bridge       |         |         |         |     |      |       | 101     |      |      |      |      |       |       |       |       |       |
| 3/16/2006  | 12:25 | Bridge       |         |         |         |     |      |       | 101     |      |      |      |      |       |       |       |       |       |
| 1/14/2005  |       | Bridge       | 17      | 0.09    | 0.09    | 0.4 |      | 75    | 120     | 18   | 7.7  | 0.5  | 7.4  | 0.09  | 0.09  | 0.014 |       | 0.09  |
| 5/19/2005  |       | Bridge       |         |         |         |     |      |       |         |      |      |      |      |       |       |       |       |       |
| 8/30/2006  |       | Bridge       | 9       | 0.1     | 0.09    | 0.3 | 0.04 | 50    | 460     | 12.8 | 6    | 1.8  | 4.4  |       |       |       |       |       |
| 8/27/2006  | 3:40  | Burro        | 76      | 1.6     | 0.2     | 3   | 0.25 | 74    | 310     | 26.4 | 65.2 | 11.2 | 1.9  |       |       |       |       |       |
| 3/11/2006  | 9:09  | Burro        |         |         |         |     |      |       | 21      |      |      |      |      |       |       |       |       |       |
| 10/9/2004  |       | Burro        | 45      | 3.2     | 0.09    | 4.1 | 0.22 | 113   | 49      | 43.1 | 50.8 | 4.11 | 1.3  | 0.006 | 0.016 | 0.009 |       | 0.006 |
| 8/26/2006  | 5:20  | Buttrill     | 40      | 0.09    | 0.09    | 0.9 | 0.04 | 145   | 10      | 50.8 | 25.6 | 0.3  | 4.4  |       |       |       |       |       |
| 8/26/2006  | 5:20  | Buttrill     |         |         |         |     |      |       |         |      |      |      |      |       |       |       |       |       |
| 3/10/2006  | 10:50 | Buttrill     |         |         |         |     |      |       | 9.5     |      |      |      |      |       |       |       |       |       |
| 3/10/2006  | 10:50 | Buttrill     |         |         |         |     |      |       | 9.5     |      |      |      |      |       |       |       |       |       |
| 12/15/2005 | 1:25  | Buttrill     | 336     | 0.4     | 0.09    | 2   | 0.28 | 353   | 31.6    | 98.9 | 63.8 | 6.26 | 25.8 | 0.006 | 0.016 | 0.009 |       | 0.006 |
| 12/15/2005 | 1:25  | Buttrill     |         |         |         |     |      |       |         |      |      |      |      |       |       |       |       |       |
| 8/16/2005  | 2:43  | Buttrill     |         |         |         |     |      |       |         |      |      |      |      |       |       |       |       |       |
| 3/11/2005  |       | Buttrill     |         |         |         |     |      |       |         |      |      |      |      |       |       |       |       |       |
| 5/14/2005  |       | Buttrill     |         |         |         |     |      |       |         |      |      |      |      |       |       |       |       |       |
| 3/9/2006   | 8:54  | Caroline     |         |         |         |     |      |       | 9       |      |      |      |      |       |       |       |       |       |
| 12/16/2005 | 8:15  | Caroline     |         |         |         |     |      |       | 10.7    |      |      |      |      |       |       |       |       |       |
| 8/15/2005  | 5:30  | Caroline     |         |         |         |     |      |       |         |      |      |      |      |       |       |       |       |       |
| 8/12/2004  |       | Caroline     | 102     | 2       | 0.09    | 1   | 0.12 | 159   | 49      | 49.2 | 39.9 | 3.6  | 8.89 | 0.01  | 0.016 | 0.017 |       | 0.1   |
| 1/13/2005  |       | Caroline     |         |         |         |     |      |       |         |      |      |      |      |       |       |       |       |       |
| 5/13/2005  |       | Caroline     |         |         |         |     |      |       |         |      |      |      |      |       |       |       |       |       |
| 1/14/2007  | 21:00 | Caroline     | 113     | 2.1     | 0.09    | 1   |      | 330   | 49      | 95.7 | 35   | 1.5  | 22.1 | 0.09  | 6.5   | 0.1   |       | 0.09  |
| 1/14/2007  | 21:00 | Caroline     |         |         |         |     |      | 325.5 |         | 94.4 | 34.6 | 1.1  | 21.8 | 0.09  | 6     | 0.05  |       | 0.09  |
| 3/9/2006   | 7:37  | Caroline-Crk |         |         |         |     |      |       | 8.4     |      |      |      |      |       |       |       |       |       |
| 12/16/2005 | 9:30  | Caroline-Crk |         |         |         |     |      |       | 39.1    |      |      |      |      |       |       |       |       |       |
| 1/12/2007  | 3:06  | Cave         | 43      | 0.2     | 0.09    | 1.2 |      | 141.8 | 49      | 32.7 | 20.7 | 0.9  | 14.6 | 0.09  | 0.2   | 0.09  |       | 0.09  |
| 3/18/2006  | 7:35  | Choza        |         |         |         |     |      |       | 10      |      |      |      |      |       |       |       |       |       |
| 3/18/2006  | 7:35  | Choza        |         |         |         |     |      |       |         |      |      |      |      |       |       |       |       |       |
| 12/10/2005 | 9:00  | Choza        |         |         |         |     |      |       | 4.8     |      |      |      |      |       |       |       |       |       |
| 12/10/2005 | 9:00  | Choza        |         |         |         |     |      |       |         |      |      |      |      |       |       |       |       |       |
| 10/15/2004 |       | Choza        | 10      | 0.9     | 0.09    | 0.2 | 0.04 | 304   | 49      | 75   | 2.6  | 2.05 | 25.5 | 0.006 | 0.016 | 0.001 |       | 0.006 |

## Appendix 2

### Individual Sample Data

| Date       | Time  | Site           | (SO4)2- | NO3-, N | NO2+, N | F   | Br   | CaCO3 | P (ppb) | Ca   | Na   | K    | Mg    | Fe    | Al     | As    | Cd    | Cr    |
|------------|-------|----------------|---------|---------|---------|-----|------|-------|---------|------|------|------|-------|-------|--------|-------|-------|-------|
| 4/16/2005  |       | Choza          | 9       | 0.8     | 0.09    | 0.1 | 0.04 | 214   | 49      | 44.5 | 5.2  | 4.2  | 25    | 0.1   | 0.09   | 0.01  |       | 0.1   |
| 5/18/2005  |       | Choza          |         |         |         |     |      |       |         |      |      |      |       |       |        |       |       |       |
| 8/20/2005  | 20:29 | Choza          |         |         |         |     |      |       |         |      |      |      |       |       |        |       |       |       |
| 8/17/2005  | 3:00  | Cienaga        |         |         |         |     |      |       |         |      |      |      |       |       |        |       |       |       |
| 5/16/2005  |       | Cienaga        | 23      | 1.8     |         | 1.7 | 0.11 | 151   | 210     | 30   | 3.1  | 3.9  | 18.5  | 0.1   | 0.09   | 0.01  |       | 0.09  |
| 8/28/2006  | 3:53  | Cinco Tinajas  | 12      | 1.9     | 0.09    | 1   | 0.04 | 58    | 50      | 19.9 | 13.8 | 7    | 2.1   | 0.4   | 0.47   | 0.01  | 0.009 | 0.09  |
| 9/1/2006   | 10:50 | Cottonwood     | 14      | 0.8     | 0.09    | 0.6 | 0.04 | 158   | 50      | 46.9 | 36.7 | 2.6  | 10    | 0.3   | 0.0811 | 0.01  | 0.009 | 0.09  |
| 9/1/2006   | 1:42  | Davenport      | 11      | 0.5     | 0.09    | 0.7 | 0.04 | 112   | 90      | 33.5 | 80.3 | 2.6  | 6.9   | 0.4   | 0.07   | 0.01  | 0.009 | 0.09  |
| 8/25/2006  | 9:55  | Dolan          | 8       | 1.8     | 0.09    | 0.3 | 0.04 | 228   | 10      | 69.7 | 6.5  | 1    | 13.1  | 0.3   | 0.07   | 0.01  | 0.009 | 0.09  |
| 9/1/2006   | 4:06  | Duff           | 45      | 0.09    | 0.09    | 1.7 | 0.2  | 152   | 40      | 43   | 26.7 | 1    | 10.8  |       |        |       |       |       |
| 3/14/2006  | 1:25  | Duff           |         |         |         |     |      |       | 110     |      |      |      |       |       |        |       |       |       |
| 3/14/2006  | 1:25  | Duff           |         |         |         |     |      |       |         |      |      |      |       |       |        |       |       |       |
| 12/13/2005 |       | Duff           |         |         |         |     |      |       | 30.1    |      |      |      |       |       |        |       |       |       |
| 12/13/2005 |       | Duff           |         |         |         |     |      |       |         |      |      |      |       |       |        |       |       |       |
| 8/19/2005  | 12:24 | Duff           | 227     | 0.09    | 0.09    | 1.9 | 0.29 | 138   | 140     | 37.2 | 7.5  | 4    | 11    | 1.8   | 0.2    | 0.014 |       | 0.09  |
| 3/9/2006   | 5:08  | Glenn          |         |         |         |     |      |       | 410     |      |      |      |       |       |        |       |       |       |
| 10/8/2004  |       | Glenn          | 94      | 0.09    | 0.09    | 4.4 | 0.15 | 256   | 80      | 88.7 | 82.2 | 4.2  | 8.4   | 0.028 | 0.016  | 0.009 |       | 0.006 |
| 3/12/2005  |       | Glenn          |         |         |         |     |      |       |         |      |      |      |       |       |        |       |       |       |
| 3/17/2006  | 9:30  | Guadalupe      |         |         |         |     |      |       | 20      |      |      |      |       |       |        |       |       |       |
| 3/17/2006  | 9:30  | Guadalupe      |         |         |         |     |      |       |         |      |      |      |       |       |        |       |       |       |
| 12/10/2005 | 1:09  | Guadalupe      |         |         |         |     |      |       | 24      |      |      |      |       |       |        |       |       |       |
| 12/10/2005 | 1:09  | Guadalupe      |         |         |         |     |      |       |         |      |      |      |       |       |        |       |       |       |
| 10/16/2004 |       | Guadalupe      | 18      | 0.5     | 0.09    | 0.3 | 0.06 | 336   | 50      | 77.6 | 6.5  | 2.48 | 28.5  | 1.605 | 0.808  | 0.009 |       | 0.006 |
| 4/16/2005  |       | Guadalupe      | 11      | 0.8     | 0.09    | 0.2 | 0.04 | 224   | 49      | 45   | 6    | 3.8  | 27    | 0.2   | 0.09   | 0.01  |       | 0.1   |
| 8/20/2005  | 1:19  | Guadalupe      |         |         |         |     |      |       |         |      |      |      |       |       |        |       |       |       |
| 1/12/2007  | 1:03  | High Elevation | 62      | 0.09    | 0.09    | 0.6 |      | 252.6 | 130     | 70.8 | 20.3 | 2    | 18.4  | 0.09  | 0.9    | 0.01  |       | 0.09  |
| 8/29/2006  | 12:15 | Indian Cave    | 21      | 1.1     | 0.09    | 1.5 | 0.12 | 100   | 30      | 34.3 | 47.3 | 3.1  | 3.5   |       |        |       |       |       |
| 3/13/2006  | 12:44 | Indian Cave    |         |         |         |     |      |       | 24      |      |      |      |       |       |        |       |       |       |
| 3/13/2006  | 12:44 | Indian Cave    |         |         |         |     |      |       |         |      |      |      |       |       |        |       |       |       |
| 1/3/2006   | 2:25  | Kyle           | 175     | 1.4     | 0.09    | 1.8 | 0.21 | 261   | 13.1    | 69.2 | 69.6 | 4.9  | 21.5  | 0.1   | 0.07   | 0.01  |       | 0.09  |
| 8/29/2006  | 11:15 | La Morita      | 44      | 0.2     | 0.09    | 2.5 | 0.3  | 297   | 50      | 70.5 | 65.7 | 4.2  | 29.3  |       |        |       |       |       |
| 3/13/2006  | 10:25 | La Morita      |         |         |         |     |      |       | 290     |      |      |      |       |       |        |       |       |       |
| 3/13/2006  | 10:25 | La Morita      |         |         |         |     |      |       |         |      |      |      |       |       |        |       |       |       |
| 8/11/2004  |       | La Morita      | 14      | 1.8     | 0.09    | 1.5 | 0.11 | 135   | 49      | 35.8 | 29.1 | 2.5  | 11.03 | 0.1   | 0.016  | 0.026 |       | 0.2   |
| 3/13/2005  |       | La Morita      |         |         |         |     |      |       |         |      |      |      |       |       |        |       |       |       |
| 1/11/2007  | 4:25  | Las Cuevas     | 19      | 0.09    | 0.09    | 2.2 |      | 226.7 | 80      | 83.7 | 27.1 | 2.2  | 4.3   | 0.4   | 5.5    | 0.1   |       | 0.09  |

## Appendix 2

### Individual Sample Data

| Date       | Time  | Site       | (SO4)2- | NO3-, N | NO2+, N | F   | Br   | CaCO3 | P (ppb) | Ca    | Na   | K    | Mg    | Fe    | Al    | As    | Cd   | Cr    |
|------------|-------|------------|---------|---------|---------|-----|------|-------|---------|-------|------|------|-------|-------|-------|-------|------|-------|
| 8/11/2004  |       | Las Cuevas | 29      | 0.8     | 0.09    | 1.9 | 0.13 | 216   | 49      | 77.9  | 33   | 3.9  | 5.129 | 0.1   | 0.018 | 0.003 |      | 0.1   |
| 3/13/2005  |       | Las Cuevas |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |
| 5/15/2005  |       | Las Cuevas |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |
| 3/15/2006  | 11:10 | Limpia     |         |         |         |     |      |       | 710     |       |      |      |       |       |       |       |      |       |
| 3/15/2006  | 11:10 | Limpia     |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |
| 12/12/2005 |       | Limpia     |         |         |         |     |      |       | 164     |       |      |      |       |       |       |       |      |       |
| 12/12/2005 |       | Limpia     |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |
| 1/14/2005  |       | Limpia     | 17      | 0.09    | 0.09    | 0.6 | 0.06 | 147   | 70      | 37.6  | 10.7 | 1.2  | 12.8  | 0.09  | 0.09  | 0.014 |      | 0.09  |
| 5/17/2005  |       | Limpia     |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |
| 8/30/2006  |       | Limpia     | 8       | 0.09    | 0.09    | 0.3 | 0.04 | 28    | 270     | 7.3   | 6.4  | 1.6  | 2.4   |       |       |       |      |       |
| 8/31/2006  | 10:30 | Lower Tuly | 13      | 0.1     | 0.09    | 0.6 | 0.04 | 76    | 160     | 23    | 7.1  | 2.5  | 4.6   |       |       |       |      |       |
| 8/31/2006  | 10:30 | Lower Tuly | 12      | 0.1     | 0.09    | 0.5 | 0.04 | 70    | 160     | 19.1  | 15.5 | 2.3  | 5.4   |       |       |       |      |       |
| 3/15/2006  | 3:00  | Lower Tuly |         |         |         |     |      |       | 381     |       |      |      |       |       |       |       |      |       |
| 3/15/2006  | 3:00  | Lower Tuly |         |         |         |     |      |       | 280     |       |      |      |       |       |       |       |      |       |
| 12/5/2005  |       | Lower Tuly |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |
| 12/5/2005  |       | Lower Tuly |         |         |         |     |      |       | 173     |       |      |      |       |       |       |       |      |       |
| 12/5/2005  |       | Lower Tuly |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |
| 8/18/2005  | 10:15 | Lower Tuly | 16      | 0.09    | 0.09    | 0.4 | 0.05 | 57    | 201     | 14.2  | 11.2 | 4    | 5.2   | 4.5   | 0.2   | 0.014 |      | 0.09  |
| 10/15/2004 |       | Manzanita  | 14      | 0.5     | 0.09    | 0.2 | 0.04 | 286   | 49      | 69.9  | 2.8  | 2.21 | 26.7  | 0.029 | 0.016 | 0.009 |      | 0.006 |
| 4/16/2005  |       | Manzanita  | 9       | 0.2     | 0.09    | 0.1 | 0.04 | 220   | 49      | 43.5  | 4    | 3.8  | 27    | 0.09  | 0.09  | 0.01  |      | 0.1   |
| 5/18/2005  |       | Manzanita  |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |
| 8/20/2005  | 7:00  | Manzanita  |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |
| 3/10/2006  | 2:54  | McKinney   |         |         |         |     |      |       | 40      |       |      |      |       |       |       |       |      |       |
| 3/10/2006  | 2:54  | McKinney   |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |
| 10/8/2004  |       | McKinney   | 197     | 0.2     | 0.09    | 3.9 | 0.34 | 423   | 49      | 151.8 | 62.2 | 3.24 | 10.6  | 0.028 | 0.016 | 0.009 |      | 0.006 |
| 3/11/2005  |       | McKinney   |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |
| 8/28/2006  | 10:03 | Mule Ear   | 29      | 1.8     | 0.09    | 2.4 | 0.14 | 159   | 20      | 54    | 43.4 | 1.3  | 5.8   |       |       |       |      |       |
| 3/11/2006  | 11:44 | Mule Ear   | 24      | 0.09    | 0.09    | 2.8 | 0.14 | 224   | 81.1    | 104.3 | 35.6 | 0.09 | 8.3   | 1.7   | 0.373 | 0.01  | 0.01 | 0.09  |
| 12/14/2005 |       | Mule Ear   |         |         |         |     |      |       | 11.8    |       |      |      |       |       |       |       |      |       |
| 1/7/2006   | 10:40 | Mystery    | 10      | 1.7     | 0.09    | 0.5 | 0.05 | 180   | 10.5    | 49    | 5.2  | 3.2  | 14    | 0.1   | 0.07  | 0.01  |      | 0.09  |
| 8/29/2006  | 3:02  | North      | 14      | 0.09    | 0.09    | 1.1 | 0.04 | 101   | 250     | 31.9  | 14.7 | 1.1  | 5.3   | 2.6   |       | 0.01  |      | 0.09  |
| 8/27/2006  | 12:58 | Oak        | 64      | 1.11    | 0.09    | 3   | 0.04 | 101   | 20      | 35.9  | 22.6 | 0.6  | 2.7   |       |       |       |      |       |
| 8/27/2006  | 12:58 | Oak        |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |
| 3/11/2006  | 3:07  | Oak        |         |         |         |     |      |       | 9.5     |       |      |      |       |       |       |       |      |       |
| 12/15/2005 | 7:55  | Oak        |         |         |         |     |      |       | 13.5    |       |      |      |       |       |       |       |      |       |
| 12/15/2005 | 7:55  | Oak        |         |         |         |     |      |       |         |       |      |      |       |       |       |       |      |       |

## Appendix 2

### Individual Sample Data

| Date       | Time  | Site               | (SO4)2- | NO3-, N | NO2+, N | F   | Br    | CaCO3 | P (ppb) | Ca    | Na   | K    | Mg   | Fe    | Al    | As    | Cd    | Cr    |
|------------|-------|--------------------|---------|---------|---------|-----|-------|-------|---------|-------|------|------|------|-------|-------|-------|-------|-------|
| 10/9/2004  |       | Oak                | 63      | 0.6     | 0.09    | 4   | 0.1   | 140   | 49      | 52.8  | 23.3 | 2.19 | 2.1  | 0.13  | 0.016 | 0.009 |       | 0.006 |
| 3/11/2005  |       | Oak                |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 5/15/2005  |       | Oak                |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 1/11/2007  | 2:36  | Ojito Adentro      | 21      | 2.2     | 0.09    | 1.7 |       | 189.1 | 49      | 70.3  | 19   | 1.6  | 3.3  | 0.09  | 1.1   | 0.04  |       | 0.09  |
| 8/29/2006  | 5:37  | Ojo Carrizal       | 22      | 0.4     | 0.09    | 0.7 | 0.04  | 104   | 640     | 31.9  | 14.7 | 1.5  | 5.9  | 0.7   | 8.5   | 0.01  | 0.009 | 0.09  |
| 8/27/2006  | 9:59  | Pena               | 267     | 0.09    | 0.09    | 3.2 | 0.22  | 314   | 30      | 109.1 | 77.9 | 1.1  | 10   |       |       |       |       |       |
| 3/12/2006  | 9:28  | Pena               | 1.6     | 0.09    | 157     | 3.7 | 0.21  | 268   | 180     | 80.8  | 70.4 | 0.09 | 8.4  | 0.2   | 0.943 | 0.01  | 0.01  | 0.09  |
| 3/12/2006  | 9:28  | Pena               |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 3/9/2006   | 1:06  | Post               |         |         |         |     |       |       | 170     |       |      |      |      |       |       |       |       |       |
| 12/15/2005 | 4:37  | Post               |         |         |         |     |       |       | 11.3    |       |      |      |      |       |       |       |       |       |
| 10/10/2004 |       | Post               | 124     | 0.2     | 0.09    | 2.5 | 0.34  | 265   | 49      | 51.5  | 54.2 | 4.13 | 38.3 | 0.006 | 0.016 | 0.009 |       | 0.006 |
| 3/11/2005  |       | Post               |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 5/13/2005  |       | Post               |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 8/16/2005  | 12:30 | Post               |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 3/17/2006  | 3:35  | Smith              |         |         |         |     |       |       | 11      |       |      |      |      |       |       |       |       |       |
| 3/17/2006  | 3:35  | Smith              |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 12/10/2005 | 2:15  | Smith              |         |         |         |     |       |       | 8.6     |       |      |      |      |       |       |       |       |       |
| 12/10/2005 | 2:15  | Smith              |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 10/15/2004 |       | Smith              | 10      | 1.1     | 0.09    | 0.1 | 0.04  | 308   | 49      | 68.2  | 1.6  | 1.91 | 20.1 | 0.006 | 0.016 | 0.009 |       | 0.006 |
| 4/16/2005  |       | Smith              | 9       | 0.7     | 0.09    | 0.1 | 0.04  | 231   | 49      | 49.5  | 4.6  | 4.2  | 26   | 0.09  | 0.09  | 0.01  |       | 0.1   |
| 5/18/2005  |       | Smith              |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 8/20/2005  | 6:30  | Smith              |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 3/12/2006  | 5:00  | Smith House        |         |         |         |     |       |       | 43      |       |      |      |      |       |       |       |       |       |
| 12/14/2005 |       | Smith House        |         |         |         |     |       |       | 42.7    |       |      |      |      |       |       |       |       |       |
| 12/14/2005 |       | Smith House        |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 5/15/2005  |       | Smith House        | 22      | 0.09    | 0.09    | 1   | 0.13  | 153   | 49      | 53    | 2.8  | 2.5  | 5    | 0.09  | 0.09  | 0.01  |       | 0.09  |
| 8/17/2005  | 11:15 | Smith House        |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 1/5/2006   | 11:00 | Son of Hot Springs | 45      | 1.5     | 0.09    | 1.5 | 0.18  | 224   | 16.6    | 60    | 49.2 | 4.6  | 18   | 0.1   | 0.07  | 0.01  |       | 0.09  |
| 3/14/2006  | 4:10  | Terlingua          |         |         |         |     |       |       | 160     |       |      |      |      |       |       |       |       |       |
| 3/14/2006  | 4:10  | Terlingua          |         |         |         |     |       |       |         |       |      |      |      |       |       |       |       |       |
| 12/13/2005 |       | Terlingua          |         |         |         |     |       |       | 37      |       |      |      |      |       |       |       |       |       |
| 8/19/2005  | 4:01  | Terlingua          | 24      | 0.2     | 0.09    | 1.2 | 0.06  | 44    | 190     | 13.8  | 8.1  | 2.2  | 2.4  | 1.9   | 0.2   | 0.014 |       | 0.09  |
| 8/30/2006  | 2:15  | Toab               | 7       | 0.09    | 0.09    | 0.1 | 0.04  | 28    | 50      | 6.5   | 4.6  | 0.7  | 2.8  |       |       |       |       |       |
| 3/16/2006  | 9:52  | Toab               |         |         |         |     |       |       | 140     |       |      |      |      |       |       |       |       |       |
| 1/14/2005  |       | Toab               | 13      | 0.09    | 0.09    | 0.1 | 0.004 | 44    | 4       | 11.2  | 3.6  | 0.3  | 4    | 0.2   | 0.09  | 0.014 |       | 0.09  |
| 3/17/2006  | 12:45 | Upper Pine         |         |         |         |     |       |       | 30      |       |      |      |      |       |       |       |       |       |

**Appendix 2**  
**Individual Sample Data**

| Date       | Time  | Site       | (SO4)2- | NO3-, N | NO2+, N | F   | Br   | CaCO3 | P (ppb) | Ca   | Na  | K    | Mg   | Fe    | Al    | As    | Cd | Cr    |
|------------|-------|------------|---------|---------|---------|-----|------|-------|---------|------|-----|------|------|-------|-------|-------|----|-------|
| 3/17/2006  | 12:45 | Upper Pine |         |         |         |     |      |       |         |      |     |      |      |       |       |       |    |       |
| 12/10/2005 |       | Upper Pine |         |         |         |     |      |       | 37.6    |      |     |      |      |       |       |       |    |       |
| 12/10/2005 |       | Upper Pine |         |         |         |     |      |       |         |      |     |      |      |       |       |       |    |       |
| 8/20/2005  | 4:00  | Upper Pine |         |         |         |     |      |       |         |      |     |      |      |       |       |       |    |       |
| 10/15/2004 |       | Upper Pine | 12      | 1.5     | 0.09    | 0.1 | 0.04 | 279   | 49      | 75.7 | 3.3 | 2.23 | 25   | 0.056 | 0.016 | 0.009 |    | 0.006 |
| 4/16/2005  |       | Upper Pine | 9       | 1.1     | 0.09    | 0.1 | 0.04 | 217   | 49      | 45   | 4.8 | 3.8  | 25.5 | 0.09  | 0.09  | 0.01  |    | 0.1   |
| 5/18/2005  |       | Upper Pine |         |         |         |     |      |       |         |      |     |      |      |       |       |       |    |       |
| 8/18/2005  | 13:17 | Upper Tuly | 17      | 0.09    | 0.09    | 2   | 0.12 | 66    | 0.05    | 19.6 | 9.4 | 2.5  | 4.2  | 0.9   | 0.2   | 0.014 |    | 0.09  |
| 8/15/2005  | 4:30  | Vanderbeek | 100     | 1.6     | 0.09    | 1.1 | 0.17 | 331   | 49      | 90.5 | 7.9 | 4.2  | 25.6 | 0.09  | 0.2   | 0.014 |    | 0.09  |
| 8/19/2005  | 9:52  | Whirlwind  | 47      | 2.2     | 0.09    | 1.1 | 0.22 | 66    | 49      | 20.2 | 8.3 | 0.8  | 3.9  | 0.09  | 0.2   | 0.014 |    | 0.09  |
| 12/13/2005 |       | Whirlwind  |         |         |         |     |      |       | 34.3    |      |     |      |      |       |       |       |    |       |
| 3/14/2006  | 9:50  | Whirlwind  |         |         |         |     |      |       | 21      |      |     |      |      |       |       |       |    |       |
| 3/14/2006  |       | Whirlwind  |         |         |         |     |      |       |         |      |     |      |      |       |       |       |    |       |

## Appendix 2 Individual Sample Data

| Date       | Time  | Site         | Pb     | Mn     | Se    | Hg (ppt) | Ag    | B     | Sr    | TI    |
|------------|-------|--------------|--------|--------|-------|----------|-------|-------|-------|-------|
| 1/4/2006   | 3:26  | Asa Jones    | 0.014  | 0.01   | 0.01  | 0.09     |       |       |       |       |
| 8/22/2006  | 1:39  | Blue         | 0.01   | 0.01   | 0.01  |          | 0.09  |       |       |       |
| 8/30/2006  | 10:58 | Bridge       |        |        |       |          |       |       |       |       |
| 3/16/2006  | 12:25 | Bridge       |        |        |       |          |       |       |       |       |
| 3/16/2006  | 12:25 | Bridge       |        |        |       |          |       |       |       |       |
| 1/14/2005  |       | Bridge       | 0.014  | 0.042  | 0.014 | 3        | 0.09  |       |       |       |
| 5/19/2005  |       | Bridge       |        |        |       |          |       |       |       |       |
| 8/30/2006  |       | Bridge       |        |        |       |          |       |       |       |       |
| 8/27/2006  | 3:40  | Burro        |        |        |       |          |       |       |       |       |
| 3/11/2006  | 9:09  | Burro        |        |        |       |          |       |       |       |       |
| 10/9/2004  |       | Burro        | 0.006  | 0.006  | 0.02  | 6        | 0.008 | 0.008 | 0.006 | 0.007 |
| 8/26/2006  | 5:20  | Buttrill     |        |        |       |          |       |       |       |       |
| 8/26/2006  | 5:20  | Buttrill     |        |        |       |          |       |       |       |       |
| 3/10/2006  | 10:50 | Buttrill     |        |        |       |          |       |       |       |       |
| 3/10/2006  | 10:50 | Buttrill     |        |        |       |          |       |       |       |       |
| 12/15/2005 | 1:25  | Buttrill     | 0.006  | 0.006  | 0.001 | 7        | 0.008 | 0.199 | 3.751 | 0.007 |
| 12/15/2005 | 1:25  | Buttrill     |        |        |       |          |       |       |       |       |
| 8/16/2005  | 2:43  | Buttrill     |        |        |       |          |       |       |       |       |
| 3/11/2005  |       | Buttrill     |        |        |       |          |       |       |       |       |
| 5/14/2005  |       | Buttrill     |        |        |       |          |       |       |       |       |
| 3/9/2006   | 8:54  | Caroline     |        |        |       |          |       |       |       |       |
| 12/16/2005 | 8:15  | Caroline     |        |        |       |          |       |       |       |       |
| 8/15/2005  | 5:30  | Caroline     |        |        |       |          |       |       |       |       |
| 8/12/2004  |       | Caroline     | 0.0009 | 0.0009 | 0.024 | 3        | 0.4   | 0.057 | 0.736 | 0.007 |
| 1/13/2005  |       | Caroline     |        |        |       |          |       |       |       |       |
| 5/13/2005  |       | Caroline     |        |        |       |          |       |       |       |       |
| 1/14/2007  | 21:00 | Caroline     | 0.05   | 0.01   | 0.1   |          | 0.09  |       |       |       |
| 1/14/2007  | 21:00 | Caroline     | 0.009  | 0.01   | 0.01  |          | 0.09  |       |       |       |
| 3/9/2006   | 7:37  | Caroline-Crk |        |        |       |          |       |       |       |       |
| 12/16/2005 | 9:30  | Caroline-Crk |        |        |       |          |       |       |       |       |
| 1/12/2007  | 3:06  | Cave         | 0.05   | 0.01   | 0.09  |          | 0.09  |       |       |       |
| 3/18/2006  | 7:35  | Choza        |        |        |       |          |       |       |       |       |
| 3/18/2006  | 7:35  | Choza        |        |        |       |          |       |       |       |       |
| 12/10/2005 | 9:00  | Choza        |        |        |       |          |       |       |       |       |
| 12/10/2005 | 9:00  | Choza        |        |        |       |          |       |       |       |       |
| 10/15/2004 |       | Choza        | 0.006  | 0.006  | 0.01  | 5        | 0.008 | 0.012 | 0.006 | 0.007 |

**Appendix 2**  
**Individual Sample Data**

| Date       | Time  | Site           | Pb     | Mn     | Se    | Hg (ppt) | Ag    | B     | Sr    | TI    |
|------------|-------|----------------|--------|--------|-------|----------|-------|-------|-------|-------|
| 4/16/2005  |       | Choza          | 0.01   | 0.01   | 0.01  |          | 0.09  |       |       |       |
| 5/18/2005  |       | Choza          |        |        |       |          |       |       |       |       |
| 8/20/2005  | 20:29 | Choza          |        |        |       |          |       |       |       |       |
| 8/17/2005  | 3:00  | Cienaga        |        |        |       |          |       |       |       |       |
| 5/16/2005  |       | Cienaga        | 0.01   | 0.068  | 0.01  |          | 0.09  |       |       |       |
| 8/28/2006  | 3:53  | Cinco Tinajas  | 0.01   | 0.028  | 0.01  |          | 0.09  |       |       |       |
| 9/1/2006   | 10:50 | Cottonwood     | 0.01   | 0.01   | 0.01  |          | 0.09  |       |       |       |
| 9/1/2006   | 1:42  | Davenport      | 0.01   | 0.053  | 0.01  |          | 0.09  |       |       |       |
| 8/25/2006  | 9:55  | Dolan          | 0.01   | 0.01   | 0.01  |          | 0.09  |       |       |       |
| 9/1/2006   | 4:06  | Duff           |        |        |       |          |       |       |       |       |
| 3/14/2006  | 1:25  | Duff           |        |        |       |          |       |       |       |       |
| 3/14/2006  | 1:25  | Duff           |        |        |       |          |       |       |       |       |
| 12/13/2005 |       | Duff           |        |        |       |          |       |       |       |       |
| 12/13/2005 |       | Duff           |        |        |       |          |       |       |       |       |
| 8/19/2005  | 12:24 | Duff           | 0.01   | 0.058  | 0.01  | 0.2      |       |       |       |       |
| 3/9/2006   | 5:08  | Glenn          |        |        |       |          |       |       |       |       |
| 10/8/2004  |       | Glenn          | 0.006  | 0.006  | 0.01  | 9        | 0.008 | 0.339 | 0.695 | 0.007 |
| 3/12/2005  |       | Glenn          |        |        |       |          |       |       |       |       |
| 3/17/2006  | 9:30  | Guadalupe      |        |        |       |          |       |       |       |       |
| 3/17/2006  | 9:30  | Guadalupe      |        |        |       |          |       |       |       |       |
| 12/10/2005 | 1:09  | Guadalupe      |        |        |       |          |       |       |       |       |
| 12/10/2005 | 1:09  | Guadalupe      |        |        |       |          |       |       |       |       |
| 10/16/2004 |       | Guadalupe      | 0.006  | 0.149  | 0.01  | 7        | 0.011 | 0.012 | 0.145 | 0.007 |
| 4/16/2005  |       | Guadalupe      | 0.01   | 0.021  | 0.01  |          | 0.09  |       |       |       |
| 8/20/2005  | 1:19  | Guadalupe      |        |        |       |          |       |       |       |       |
| 1/12/2007  | 1:03  | High Elevation | 0.001  | 0.01   | 0.01  |          | 0.09  |       |       |       |
| 8/29/2006  | 12:15 | Indian Cave    |        |        |       |          |       |       |       |       |
| 3/13/2006  | 12:44 | Indian Cave    |        |        |       |          |       |       |       |       |
| 3/13/2006  | 12:44 | Indian Cave    |        |        |       |          |       |       |       |       |
| 1/3/2006   | 2:25  | Kyle           | 0.014  | 0.01   | 0.01  | 0.09     |       |       |       |       |
| 8/29/2006  | 11:15 | La Morita      |        |        |       |          |       |       |       |       |
| 3/13/2006  | 10:25 | La Morita      |        |        |       |          |       |       |       |       |
| 3/13/2006  | 10:25 | La Morita      |        |        |       |          |       |       |       |       |
| 8/11/2004  |       | La Morita      | 0.0009 | 0.0009 | 0.059 | 3        | 0.4   | 0.08  | 0.446 | 0.007 |
| 3/13/2005  |       | La Morita      |        |        |       |          |       |       |       |       |
| 1/11/2007  | 4:25  | Las Cuevas     | 0.06   | 0.05   | 0.1   |          | 0.09  |       |       |       |

**Appendix 2**  
**Individual Sample Data**

| Date       | Time  | Site       | Pb     | Mn     | Se    | Hg (ppt) | Ag    | B     | Sr    | TI    |
|------------|-------|------------|--------|--------|-------|----------|-------|-------|-------|-------|
| 8/11/2004  |       | Las Cuevas | 0.0009 | 0.052  | 0.01  | 2        | 0.4   | 0.065 | 0.327 | 0.007 |
| 3/13/2005  |       | Las Cuevas |        |        |       |          |       |       |       |       |
| 5/15/2005  |       | Las Cuevas |        |        |       |          |       |       |       |       |
| 3/15/2006  | 11:10 | Limpia     |        |        |       |          |       |       |       |       |
| 3/15/2006  | 11:10 | Limpia     |        |        |       |          |       |       |       |       |
| 12/12/2005 |       | Limpia     |        |        |       |          |       |       |       |       |
| 12/12/2005 |       | Limpia     |        |        |       |          |       |       |       |       |
| 1/14/2005  |       | Limpia     | 0.014  | 0.014  | 0.014 | 3        | 0.09  |       |       |       |
| 5/17/2005  |       | Limpia     |        |        |       |          |       |       |       |       |
| 8/30/2006  |       | Limpia     |        |        |       |          |       |       |       |       |
| 8/31/2006  | 10:30 | Lower Tuly |        |        |       |          |       |       |       |       |
| 8/31/2006  | 10:30 | Lower Tuly |        |        |       |          |       |       |       |       |
| 3/15/2006  | 3:00  | Lower Tuly |        |        |       |          |       |       |       |       |
| 3/15/2006  | 3:00  | Lower Tuly |        |        |       |          |       |       |       |       |
| 12/5/2005  |       | Lower Tuly |        |        |       |          |       |       |       |       |
| 12/5/2005  |       | Lower Tuly |        |        |       |          |       |       |       |       |
| 12/5/2005  |       | Lower Tuly |        |        |       |          |       |       |       |       |
| 8/18/2005  | 10:15 | Lower Tuly | 0.01   | 0.018  | 0.01  | 0.1      |       |       |       |       |
| 10/15/2004 |       | Manzanita  | 0.006  | 0.0007 | 0.01  | 9        | 0.011 | 0.012 | 0.006 | 0.007 |
| 4/16/2005  |       | Manzanita  | 0.01   | 0.01   | 0.01  |          | 0.09  |       |       |       |
| 5/18/2005  |       | Manzanita  |        |        |       |          |       |       |       |       |
| 8/20/2005  | 7:00  | Manzanita  |        |        |       |          |       |       |       |       |
| 3/10/2006  | 2:54  | McKinney   |        |        |       |          |       |       |       |       |
| 3/10/2006  | 2:54  | McKinney   |        |        |       |          |       |       |       |       |
| 10/8/2004  |       | McKinney   | 0.006  | 0.077  | 0.01  | 8        | 0.008 | 0.143 | 2.02  | 0.007 |
| 3/11/2005  |       | McKinney   |        |        |       |          |       |       |       |       |
| 8/28/2006  | 10:03 | Mule Ear   |        |        |       |          |       |       |       |       |
| 3/11/2006  | 11:44 | Mule Ear   | 0.01   | 0.027  | 0.01  |          | 0.09  |       |       |       |
| 12/14/2005 |       | Mule Ear   |        |        |       |          |       |       |       |       |
| 1/7/2006   | 10:40 | Mystery    | 0.014  | 0.042  | 0.01  | 0.09     |       |       |       |       |
| 8/29/2006  | 3:02  | North      | 0.01   | 0.057  | 0.01  |          | 0.09  |       |       |       |
| 8/27/2006  | 12:58 | Oak        |        |        |       |          |       |       |       |       |
| 8/27/2006  | 12:58 | Oak        |        |        |       |          |       |       |       |       |
| 3/11/2006  | 3:07  | Oak        |        |        |       |          |       |       |       |       |
| 12/15/2005 | 7:55  | Oak        |        |        |       |          |       |       |       |       |
| 12/15/2005 | 7:55  | Oak        |        |        |       |          |       |       |       |       |

**Appendix 2**  
**Individual Sample Data**

| Date       | Time  | Site               | Pb    | Mn    | Se    | Hg (ppt) | Ag    | B     | Sr    | TI    |
|------------|-------|--------------------|-------|-------|-------|----------|-------|-------|-------|-------|
| 10/9/2004  |       | Oak                | 0.006 | 0.006 | 0.01  | 5        | 0.008 | 0.055 | 0.314 | 0.007 |
| 3/11/2005  |       | Oak                |       |       |       |          |       |       |       |       |
| 5/15/2005  |       | Oak                |       |       |       |          |       |       |       |       |
| 1/11/2007  | 2:36  | Ojito Adentro      | 0.01  | 0.01  | 0.01  |          | 0.09  |       |       |       |
| 8/29/2006  | 5:37  | Ojo Carrizal       | 0.01  | 0.02  | 0.01  |          | 0.09  |       |       |       |
| 8/27/2006  | 9:59  | Pena               |       |       |       |          |       |       |       |       |
| 3/12/2006  | 9:28  | Pena               | 0.01  | 2.685 | 0.01  |          | 0.09  |       |       |       |
| 3/12/2006  | 9:28  | Pena               |       |       |       |          |       |       |       |       |
| 3/9/2006   | 1:06  | Post               |       |       |       |          |       |       |       |       |
| 12/15/2005 | 4:37  | Post               |       |       |       |          |       |       |       |       |
| 10/10/2004 |       | Post               | 0.006 | 0.006 | 0.021 | 7        | 0.009 | 0.369 | 1.381 | 0.007 |
| 3/11/2005  |       | Post               |       |       |       |          |       |       |       |       |
| 5/13/2005  |       | Post               |       |       |       |          |       |       |       |       |
| 8/16/2005  | 12:30 | Post               |       |       |       |          |       |       |       |       |
| 3/17/2006  | 3:35  | Smith              |       |       |       |          |       |       |       |       |
| 3/17/2006  | 3:35  | Smith              |       |       |       |          |       |       |       |       |
| 12/10/2005 | 2:15  | Smith              |       |       |       |          |       |       |       |       |
| 12/10/2005 | 2:15  | Smith              |       |       |       |          |       |       |       |       |
| 10/15/2004 |       | Smith              | 0.006 | 0.006 | 0.01  | 6        | 0.008 | 0.012 | 0.006 | 0.007 |
| 4/16/2005  |       | Smith              | 0.01  | 0.01  | 0.01  |          | 0.09  |       |       |       |
| 5/18/2005  |       | Smith              |       |       |       |          |       |       |       |       |
| 8/20/2005  | 6:30  | Smith              |       |       |       |          |       |       |       |       |
| 3/12/2006  | 5:00  | Smith House        |       |       |       |          |       |       |       |       |
| 12/14/2005 |       | Smith House        |       |       |       |          |       |       |       |       |
| 12/14/2005 |       | Smith House        |       |       |       |          |       |       |       |       |
| 5/15/2005  |       | Smith House        | 0.01  | 0.173 | 0.01  |          | 0.09  |       |       |       |
| 8/17/2005  | 11:15 | Smith House        |       |       |       |          |       |       |       |       |
| 1/5/2006   | 11:00 | Son of Hot Springs | 0.014 | 0.01  | 0.01  | 0.09     |       |       |       |       |
| 3/14/2006  | 4:10  | Terlingua          |       |       |       |          |       |       |       |       |
| 3/14/2006  | 4:10  | Terlingua          |       |       |       |          |       |       |       |       |
| 12/13/2005 |       | Terlingua          |       |       |       |          |       |       |       |       |
| 8/19/2005  | 4:01  | Terlingua          | 0.01  | 0.029 | 0.01  | 0.1      |       |       |       |       |
| 8/30/2006  | 2:15  | Toab               |       |       |       |          |       |       |       |       |
| 3/16/2006  | 9:52  | Toab               |       |       |       |          |       |       |       |       |
| 1/14/2005  |       | Toab               | 0.014 | 0.014 | 0.014 | 5        | 0.09  |       |       |       |
| 3/17/2006  | 12:45 | Upper Pine         |       |       |       |          |       |       |       |       |

**Appendix 2**  
**Individual Sample Data**

| Date       | Time  | Site       | Pb    | Mn    | Se   | Hg (ppt) | Ag    | B     | Sr    | TI    |
|------------|-------|------------|-------|-------|------|----------|-------|-------|-------|-------|
| 3/17/2006  | 12:45 | Upper Pine |       |       |      |          |       |       |       |       |
| 12/10/2005 |       | Upper Pine |       |       |      |          |       |       |       |       |
| 12/10/2005 |       | Upper Pine |       |       |      |          |       |       |       |       |
| 8/20/2005  | 4:00  | Upper Pine |       |       |      |          |       |       |       |       |
| 10/15/2004 |       | Upper Pine | 0.006 | 0.006 | 0.01 | 1        | 0.008 | 0.012 | 0.006 | 0.007 |
| 4/16/2005  |       | Upper Pine | 0.01  | 0.01  | 0.01 |          | 0.09  |       |       |       |
| 5/18/2005  |       | Upper Pine |       |       |      |          |       |       |       |       |
| 8/18/2005  | 13:17 | Upper Tuly | 0.01  | 0.014 | 0.01 | 0.1      |       |       |       |       |
| 8/15/2005  | 4:30  | Vanderbeek | 0.01  | 0.014 | 0.01 | 0.1      |       |       |       |       |
| 8/19/2005  | 9:52  | Whirlwind  | 0.01  | 0.014 | 0.01 | 0.1      |       |       |       |       |
| 12/13/2005 |       | Whirlwind  |       |       |      |          |       |       |       |       |
| 3/14/2006  | 9:50  | Whirlwind  |       |       |      |          |       |       |       |       |
| 3/14/2006  |       | Whirlwind  |       |       |      |          |       |       |       |       |