

| Sample ID        | Result       | Std. Dev. | RSD | Mode | ALT |
|------------------|--------------|-----------|-----|------|-----|
| =====            |              |           |     |      |     |
| BLANK            | 67414        |           |     | TOC  |     |
| 250mg/l          | 2664498      |           |     | TOC  |     |
| 500mg/l          | 5287232      |           |     | TOC  |     |
| 1000mg/l.....    | 11780196...  | ..        | ... | TOC  | ..  |
| 2000mg/l         | 21753500     |           |     | TOC  |     |
| ICV              | 1077.6921    |           |     | TOC  |     |
| ICB.....         | 4.3937...    | ..        | ... | TOC  | ..  |
| CCV              | 1000.9574    |           |     | TOC  |     |
| CCB              | 0.3419       |           |     | TOC  |     |
| LB101999BLS..... | 6.4247...    | ..        | ... | TOC  | ..  |
| LB101999BLS      | 13.0380      |           |     | TOC  |     |
| LB101999BLS      | 4.1874       |           |     | TOC  |     |
| LB101999BLS..... | 7.5577...    | ..        | ... | TOC  | ..  |
| LB101999BSS      | 1086.2452    |           |     | TOC  |     |
| LB101999BSS      | 1015.7300    |           |     | TOC  |     |
| LB101999BSS..... | 1102.7979... | ..        | ... | TOC  | ..  |
| LB101999BSS      | 1081.3768    |           |     | TOC  |     |
| K2241-01         | 59.1719      |           |     | TOC  |     |
| K2241-01.....    | 58.7448...   | ..        | ... | TOC  | ..  |
| K2241-01         | 52.7895      |           |     | TOC  |     |
| K2241-01         | 56.5761      |           |     | TOC  |     |
| K2241-02.....    | 556.1492...  | ..        | ... | TOC  | ..  |
| K2241-02         | 492.2722     |           |     | TOC  |     |
| K2241-02         | 505.6053     |           |     | TOC  |     |
| K2241-02.....    | 524.1407...  | ..        | ... | TOC  | ..  |
| CCV              | 1090.8899    |           |     | TOC  |     |
| CCB              | 7.2428       |           |     | TOC  |     |

| Method ID |         | Sample Type     | Vial Timestamp |              | Message |                       |
|-----------|---------|-----------------|----------------|--------------|---------|-----------------------|
| =====     |         |                 |                |              |         |                       |
| Boat      | Sampler | TOC Standard    |                | 2019/04/09   | 14:06   |                       |
| Boat      | Sampler | TOC Standard    |                | 2019/04/09   | 14:11   |                       |
| Boat      | Sampler | TOC Standard    |                | 2019/04/09   | 14:16   |                       |
| Boat      | Sampler | ...TOC Standard | ..             | ..2019/04/09 | 14:24   | ..                    |
| Boat      | Sampler | TOC Standard    |                | 2019/04/09   | 14:45   |                       |
| Boat      | Sampler | Sample          |                | 2019/04/09   | 14:59   |                       |
| Boat      | Sampler | ...Sample       | ..             | ..2019/04/09 | 15:01   | ..                    |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 13:46   |                       |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 13:54   | Low Sample Detected   |
| Boat      | Sampler | ...Sample       | ..             | ..2019/04/10 | 14:00   | ..Low Sample Detected |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 14:04   |                       |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 14:07   |                       |
| Boat      | Sampler | ...Sample       | ..             | ..2019/04/10 | 14:11   | ..                    |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 14:17   |                       |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 14:21   |                       |
| Boat      | Sampler | ...Sample       | ..             | ..2019/04/10 | 14:26   | ..                    |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 14:31   |                       |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 14:36   |                       |
| Boat      | Sampler | ...Sample       | ..             | ..2019/04/10 | 14:39   | ..                    |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 14:43   |                       |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 14:47   |                       |
| Boat      | Sampler | ...Sample       | ..             | ..2019/04/10 | 14:52   | ..                    |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 14:56   |                       |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 15:01   |                       |
| Boat      | Sampler | ...Sample       | ..             | ..2019/04/10 | 15:06   | ..                    |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 15:12   |                       |
| Boat      | Sampler | Sample          |                | 2019/04/10   | 15:16   | Low Sample Detected   |

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Sample ID:   BLANK                      Mode:      TOC
Method:      Boat Sampler                Filename:   04091404
Cal. Curve:  TOC SOIL                    Timestamp: 2019/04/09 14:06
Operator ID: AP AK                        Sample Type: TOC Standard
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 67414    | -1.390                | -0.394             | 86                  |

```
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```

```
Sample ID:   250mg/l                      Mode:      TOC
Method:      Boat Sampler                Filename:   04091407
Cal. Curve:  TOC SOIL                    Timestamp: 2019/04/09 14:11
Operator ID: AP AK                        Sample Type: TOC Standard
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 2664498  | -1.450                | -0.451             | 158                 |

```
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```

```
Sample ID:   500mg/l                      Mode:      TOC
Method:      Boat Sampler                Filename:   04091413
Cal. Curve:  TOC SOIL                    Timestamp: 2019/04/09 14:16
Operator ID: AP AK                        Sample Type: TOC Standard
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 5287232  | -1.078                | -0.078             | 167                 |

```
=====
```

```
Sample ID:   1000mg/l                     Mode:      TOC
Method:      Boat Sampler                Filename:   04091418
Cal. Curve:  TOC SOIL                    Timestamp: 2019/04/09 14:24
Operator ID: AP AK                        Sample Type: TOC Standard
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 11780196 | -1.159                | -0.160             | 315                 |

```
=====
```

```
Sample ID:   2000mg/l                     Mode:      TOC
Method:      Boat Sampler                Filename:   04091439
Cal. Curve:  TOC SOIL                    Timestamp: 2019/04/09 14:45
Operator ID: AP AK                        Sample Type: TOC Standard
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 21753500 | -0.982                | 0.016              | 307                 |

```
=====
```

```
Sample ID:   ICV                          Mode:      TOC
Method:      Boat Sampler                Filename:   04091454
Cal. Curve:  TOC SOIL                    Timestamp: 2019/04/09 14:59
Operator ID: AP AK                        Sample Type: Sample
```

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1077.6921 | 43.1077 | 11825432 | -0.868                | 0.131              | 243                 |

```
=====
```

```
Sample ID:   ICB                          Mode:      TOC
Method:      Boat Sampler                Filename:   04091459
Cal. Curve:  TOC SOIL                    Timestamp: 2019/04/09 15:01
Operator ID: AP AK                        Sample Type: Sample
```

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 4.3937 | 0.1757 | 48212    | -0.579                | 0.420              | 84                  |

Sample ID: CCV
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: AP AK

Mode: TOC
Filename: 04101341
Timestamp: 2019/04/10 13:46
Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1000.9574 | 40.0383 | 10983428 | -1.119                | -0.119             | 262                 |

Sample ID: CCB
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: AP AK

Mode: TOC
Filename: 04101351
Timestamp: 2019/04/10 13:54
Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 0.3419 | 0.0137 | 3752     | -0.158                | -0.401             | 120                 |

Last Message: Low Sample Detected

Sample ID: LB101999BLS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: AP AK

Mode: TOC
Filename: 04101357
Timestamp: 2019/04/10 14:00
Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 6.4247 | 0.2570 | 70498    | -1.273                | -0.731             | 120                 |

Last Message: Low Sample Detected

Sample ID: LB101999BLS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: AP AK

Mode: TOC
Filename: 04101401
Timestamp: 2019/04/10 14:04
Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 13.0380 | 0.5215 | 143065   | -1.251                | -0.251             | 106                 |

Sample ID: LB101999BLS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: AP AK

Mode: TOC
Filename: 04101405
Timestamp: 2019/04/10 14:07
Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 4.1874 | 0.1675 | 45948    | -0.721                | 0.277              | 87                  |

Sample ID: LB101999BLS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: AP AK

Mode: TOC
Filename: 04101408
Timestamp: 2019/04/10 14:11
Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 7.5577 | 0.3023 | 82930    | -0.758                | 0.236              | 93                  |

Sample ID: LB101999BSS Mode: TOC  
Method: Boat Sampler Filename: 04101412  
Cal. Curve: TOC SOIL Timestamp: 2019/04/10 14:17  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1086.2452 | 43.4498 | 11919285 | -0.739                | 0.258              | 224                 |

Sample ID: LB101999BSS Mode: TOC  
Method: Boat Sampler Filename: 04101417  
Cal. Curve: TOC SOIL Timestamp: 2019/04/10 14:21  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1015.7300 | 40.6292 | 11145527 | -0.493                | 0.504              | 199                 |

Sample ID: LB101999BSS Mode: TOC  
Method: Boat Sampler Filename: 04101422  
Cal. Curve: TOC SOIL Timestamp: 2019/04/10 14:26  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1102.7979 | 44.1119 | 12100916 | -0.403                | 0.596              | 212                 |

Sample ID: LB101999BSS Mode: TOC  
Method: Boat Sampler Filename: 04101427  
Cal. Curve: TOC SOIL Timestamp: 2019/04/10 14:31  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1081.3768 | 43.2551 | 11865864 | -0.457                | 0.542              | 222                 |

Sample ID: K2241-01 Mode: TOC  
Method: Boat Sampler Filename: 04101432  
Cal. Curve: TOC SOIL Timestamp: 2019/04/10 14:36  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 59.1719 | 2.3669 | 649289   | -0.943                | 0.057              | 134                 |

Sample ID: K2241-01 Mode: TOC  
Method: Boat Sampler Filename: 04101436  
Cal. Curve: TOC SOIL Timestamp: 2019/04/10 14:39  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 58.7448 | 2.3498 | 644603   | -0.768                | 0.231              | 118                 |

Sample ID: K2241-01 Mode: TOC  
Method: Boat Sampler Filename: 04101440  
Cal. Curve: TOC SOIL Timestamp: 2019/04/10 14:43  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 52.7895 | 2.1116 | 579255   | -1.151                | -0.153             | 119                 |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | K2241-01     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 04101444         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2019/04/10 14:47 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 56.5761 | 2.2630 | 620805   | -0.952                | 0.047              | 119                 |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | K2241-02     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 04101448         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2019/04/10 14:52 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 556.1492 | 22.2460 | 6102582  | -1.105                | -0.106             | 201                 |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | K2241-02     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 04101453         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2019/04/10 14:56 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 492.2722 | 19.6909 | 5401665  | -0.817                | 0.180              | 167                 |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | K2241-02     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 04101457         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2019/04/10 15:01 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 505.6053 | 20.2242 | 5547968  | -0.982                | 0.018              | 185                 |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | K2241-02     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 04101502         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2019/04/10 15:06 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 524.1407 | 20.9656 | 5751355  | -1.121                | -0.123             | 197                 |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | CCV          | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 04101507         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2019/04/10 15:12 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1090.8899 | 43.6356 | 11970250 | -1.118                | -0.121             | 238                 |

|            |              |           |          |
|------------|--------------|-----------|----------|
| Sample ID: | CCB          | Mode:     | TOC      |
| Method:    | Boat Sampler | Filename: | 04101513 |

Cal. Curve: TOC SOIL  
Operator ID: AP AK

Timestamp: 2019/04/10 15:16  
Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 7.2428 | 0.2897 | 79474    | -1.345                | -0.771             | 120                 |

-----  
Last Message: Low Sample Detected  
=====

| CHEMTECH                  |             | Analyst              |                      | AK    |
|---------------------------|-------------|----------------------|----------------------|-------|
| SOP ID: M9060/A-TOC       |             |                      |                      |       |
| QA Control Code: A2040083 |             | Balance ID : WC SC-3 |                      |       |
| Sample ID                 | Weight (mg) | Result (PPM)         | Average-Result (PPM) | RSD   |
| LB101999BLS               | 40          | 6.4                  | 8                    | 48.72 |
| LB101999BLS               | 40          | 13                   |                      |       |
| LB101999BLS               | 40          | 4.1                  |                      |       |
| LB101999BLS               | 40          | 7.5                  |                      |       |
| LB101999BSS               | 40          | 1086                 | 1071                 | 3.58  |
| LB101999BSS               | 40          | 1015                 |                      |       |
| LB101999BSS               | 40          | 1102                 |                      |       |
| LB101999BSS               | 40          | 1081                 |                      |       |
| K2241-01                  | 40          | 59                   | 56                   | 5.50  |
| K2241-01                  | 40          | 58                   |                      |       |
| K2241-01                  | 40          | 52                   |                      |       |
| K2241-01                  | 40          | 56                   |                      |       |
| K2241-02                  | 40          | 556                  | 519                  | 5.35  |
| K2241-02                  | 40          | 492                  |                      |       |
| K2241-02                  | 40          | 505                  |                      |       |
| K2241-02                  | 40          | 524                  |                      |       |



Cal. Curve ID: TOC SOIL  
Created: 2019/04/09 14:46  
Calibration Factor (m): 2.743e+05  
Y Intercept (b): 80877  
r-squared: 0.99766

| Standard ID | Y<br>Raw Data | X Expected<br>ug C | Measured<br>ug C | Message | Date &<br>Time   |
|-------------|---------------|--------------------|------------------|---------|------------------|
| BLANK       | 67414         | 0.000              | -0.049           |         | 2019/04/09 14:06 |
| 250mg/l     | 2664498       | 10.000             | 9.418            |         | 2019/04/09 14:11 |
| 500mg/l     | 5287232       | 20.000             | 18.979           |         | 2019/04/09 14:16 |
| 1000mg/l    | 11780196      | 40.000             | 42.648           |         | 2019/04/09 14:24 |
| 2000mg/l    | 21753500      | 80.000             | 79.004           |         | 2019/04/09 14:45 |