**Sarasota County**

**Central County Solid Waste Disposal Complex**

**Permit Number: 130542-022-SO/01**

**WACS ID: SWD/58/51614**

# 2018 Semi-Annual Groundwater Report (July – December 2018)

# 2018 Semi-Annual Surface Water Report (July – December 2018)

**February 2019**

Sarasota County Solid Waste Operations
4000 Knights Trail Rd
Nokomis Florida 34275

Sarasota County

Sarasota County

Public Utilities – Solid Waste

4000 Knights Trail Rd.
Nokomis, FL 34275

**941-861-5000**
**scgov.net**

February 7, 2019

Solid Waste Section
Department of Environmental Protection
South District Office
2295 Victoria Avenue, Suite 364
Fort Myers, Florida 33902-2549

RE: Central County Solid Waste Disposal Complex
Permit Number 130542-022-SO/01
2nd Semi-Annual Groundwater Report (July – December 2018)
2nd Semi-Annual Surface Water Report (July – December 2018)

To Whom It May Concern:

Enclosed are the 2nd Semi-Annual Groundwater and Surface Water Monitoring Reports for 2018 as specified in Appendix 3.II and 3.III, respectively, of the permit. Included as well are the associated ADaPT files as specified in Appendix 3.V.E.7 of the permit.

You will find included in this report; the Water Quality Monitoring Certification form, *Exceedance of MCLs Summary* table (Table 1), water elevation table and signed/sealed groundwater contour map, field sampling logs, and laboratory results provided by Pace Analytical and Benchmark EnviroAnalytical, Inc.

Specific Condition D.1 and 2 of the permit establishes primary and secondary zones of discharge as well as alternative background concentrations for four parameters. The primary zone of discharge shall not have Class G-II water quality standards and background water quality concentrations exceeded outside the boundary except for the following parameters: ammonia-N, arsenic, iron, TDS and manganese. Alternative background concentrations have also been established for sodium and chloride, at 456 mg/L and 643 mg/L, respectively.

The secondary zone of discharge shall not have Class G-II water quality standards and background water quality concentrations exceeded outside the boundary for the following parameters: ammonia-N, arsenic, iron, TDS and manganese. Alternative background concentrations have also been established for iron and total dissolved solids, at 6.3 mg/L and 1924 mg/L, respectively.

Once these Site-Specific Conditions are applied to the sampling results for the primary zone of discharge, only pH remains as an exceedance. The ADaPT program cannot accommodate these Site-Specific Conditions, therefore the ADaPT files will contain more exceedances which are not in this report.

Of the secondary zone of discharge wells, NAM-2 had an exceedance of arsenic at 11.6 ug/L which is consistent with the previous sampling events. The iron result for NAM -3 was reported at 6,400

ug/L exceeding the limit of 6300 ug/L, but within historical values. NAM-3 and NAM-4 both had exceedances for pH; 6.44 and 6.23 respectively.

In the Surface water samples; Field Blank, Pond 1, Pond 2 and the Duplicate, Fecal Coliform was detected below regulatory limits. Due to the presence in the Field Blank as well as being below the regulatory limit, samples were not recollected for Fecal Coliform.

One compound (COD), was inadvertently left off the Chain of Custody for the initial surface water sampling event for both Pond 1 and 2. Therefore, on December 17, 2018 additional surface water samples as well as a field blank were collected to include the missing compound.

There were no exceedances for surface water.

If you have any questions or concerns, please contact me at (941) 9790450 or rlmoore@scgov.net.

Sincerely,

Ronald L. Moore
Environmental Specialist II

Cc: FDEP, Solid Waste, Tallahassee, FL

# Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(31), F.A.C.
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9), F.A.C.

## WATER QUALITY MONITORING CERTIFICATION

### PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex, Class I Landfill Operation

Address 4000 Knights Trail Rd

City Nokomis Zip 34275 County Sarasota

Telephone Number (941 )861-1573

(2) WACS Facility ID SWD/58/51614

(3) DEP Permit Number 130542-007-SO/01

(4) Authorized Representative's Name Ronald L. Moore Title Environmental Specialist II

Address 4000 Knights Trail Rd

City Nokomis Zip 34275 County Sarasota

Telephone Number (941 )979-0450

Email address (if available) rlmoore@scgov.net

### CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

February 7, 2019 (Date)

(Owner or Authorized Representative's Signature)

### PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Sarasota County

Analytical Lab NELAC / HRS Certification # E83079 E84167

Lab Name PAS, Inc Benchmark EnviroAnalytical, Inc

Address 8 East Tower Circle, Ormond Beach, FL 32174 1711 12th Street East, Palmetto, FL 34221

Phone Number (386 )672-5668 (941) 723-9986

Email address (if available)

**TABLE 1**
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**
**EXCEEDENCE OF MCLs SUMMARY**

## 2018 - 2nd Semi-Annual Groundwater Evaluation Monitoring Report - Groundwater Monitoring Wells

| | | 20585 | 21455 | 4509 | 4510 | 23031 | 23032 | 23033 | 29095 | 27140 | 27141 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Background | Detection | Detection | Detection | Detection | Detection | Detection | Detection | Detection | Detection |
| Parameter | MCL | MW-1R | MW-8A | MW-9 | MW-10R | MW-15 | MW-16 | MW-17 | MW-18R | MW-19A | MW-20A |
| | | | | | | | | | | | |
| pH | 6.5-8.5 | **6.18** | **6.23** | | **6.37** | | **6.33** | **6.36** | **6.01** | | |
| Sodium | 456 mg/l* | | | | | | | | | | |
| Chloride | 643 mg/l* | | | | | | | | | | |

* Alternative MCL's as established in section D.3 of the permit

## 2018 - 2nd Semi-Annual Groundwater Evaluation Monitoring Report - Natural Attenuation Monitoring Wells

| | | 29091 | 29092 | 29093 | 29094 |
|---|---|---|---|---|---|
| | | NAM | NAM | NAM | NAM |
| Parameter | MCL | NAM-1 | NAM-2 | NAM-3 | NAM-4 |
| | | | | | |
| pH | 6.5-8.5 | | | **6.44** | **6.23** |
| Total Ammonia | 2.8 mg/l | | | | |
| Iron | 6.3 mg/l* | | | **6.40** | |
| Manganese | 50 ug/l | | | | |
| Arsenic | 10 ug/l | | **11.6** | | |
| Solids, Total Dissolved | 1924 mg/l* | | | | |

* Alternative MCL's as established in section D.3 of the permit

## 2018 - 2nd Semi-Annual Surface Water Evaluation Monitoring Report

| | | 28824 | 28825 |
|---|---|---|---|
| | | Surface water | Surface water |
| Parameter | MCL | Pond 1 | Pond 2 |

There were no exceedences for Surface Water.

**Central County Solid Waste Disposal Complex**
**Water Elevation Table 10/12/18**

| Well | Date Measured | Depth to Water (ft) | Top of Casing (ft) NGVD 1929 | Calculated Water Elevation (ft) NGVD 1929 |
|---|---|---|---|---|
| MW-3 | 10/12/2018 | 2.08 | 23.340 | 21.26 |
| MW-5 | 10/12/2018 | 3.14 | 23.190 | 20.05 |
| MW-1R | 10/12/2018 | 3.05 | 24.428 | 21.38 |
| MW-8A | 10/12/2018 | 14.85 | 35.400 | 20.55 |
| MW-9 | 10/12/2018 | 11.49 | 32.08 | 20.59 |
| MW-10R | 10/12/2018 | 19.34 | 39.49 | 20.15 |
| CW-8A | 10/12/2018 | 14.66 | 35.040 | 20.38 |
| CW-9 | 10/12/2018 | 5.92 | 26.582 | 20.66 |
| CW-10R | 10/12/2018 | 6.48 | 26.982 | 20.50 |
| MW-15 | 10/12/2018 | 23.63 | 44.320 | 20.69 |
| MW-16 | 10/12/2018 | 23.76 | 43.730 | 19.97 |
| MW-17 | 10/12/2018 | 27.27 | 46.150 | 18.88 |
| MW-18R | 10/12/2018 | 9.68 | 28.330 | 18.65 |
| CW-15 | 10/12/2018 | 9.15 | 30.173 | 21.02 |
| CW-16 | 10/12/2018 | 9.72 | 29.578 | 19.86 |
| MW-19A | 10/12/2018 | 7.95 | 27.52 | 19.57 |
| MW-20A | 10/12/2018 | 8.49 | 27.38 | 18.89 |
| NAM-1 | 10/12/2018 | 2.12 | 19.87 | 17.75 |
| NAM-2 | 10/12/2018 | 2.63 | 20.02 | 17.39 |
| NAM-3 | 10/12/2018 | 2.39 | 20.62 | 18.23 |
| NAM-4 | 10/12/2018 | 5.44 | 22.66 | 17.22 |

| Staff Gauge | | Staff Gauge Reading (ft) | Staff Gauge Elevation (ft) | Calculated Water Elevation (ft) |
|---|---|---|---|---|
| STW1 | 10/12/2018 | 2.48 | 21.187 (3') | 20.67 |
| STW1A | 10/12/2018 | * | 22.64 (6') | * |
| STW2 | 10/12/2018 | 2.12 | 20.305 (4') | 18.43 |
| STW2A | 10/12/2018 | * | 20.18 (5') | * |
| STW3 | 10/12/2018 | 2.15 | 20.191 (4') | 18.34 |
| STW3A | 10/12/2018 | 3.90 | 18.43 (4') | 18.33 |
| STW4 | 10/12/2018 | 2.08 | 19.342 (4') | 17.42 |
| STW4A | 10/12/2018 | 4.15 | 17.35 (4') | 17.50 |
| STW5A | 10/12/2018 | 2.05 | 19.788 (4') | 17.84 |
| STW5B | 10/12/2018 | 3.90 | 18.04 (4') | 17.94 |
| STW6 | 10/12/2018 | 2.45 | 19.37 (4') | 17.82 |
| STW6A | 10/12/2018 | 5.16 | 17.67 (5') | 17.83 |
| STW7 | 10/12/2018 | 2.10 | 22.287 (4') | 20.39 |
| STW7A | 10/12/2018 | 5.35 | 19.02 (4') | 20.37 |

* Not readable due to vegetation coverage.
Measured by Ronald Moore on 10/12/2018

PLOTTED: 1/25/2019 02:40 PM BRIAN THOMAS
SAVED: 1/25/2019 2:40 PM BTHOMAS \\JEACAD\GWM\JONES EDMUNDS\SARASOTA COUNTY\CENTRAL CSWDC\GWM 2018\18S2\CENTRAL CSWDC_18S2.DWG

GEORGE ALBETZ REINHART III
LICENSE
No. 66516
STATE OF FLORIDA
PROFESSIONAL ENGINEER

1/31/19

N

**GRAPHIC SCALE**

0 250 500 1000

SCALE IN FEET

**LEGEND**

| | |
|---|---|
| MW-8A 20.55 | GROUNDWATER MONITORING WELL |
| NAM-1 17.75 | NATURAL ATTENUATION MONITORING WELL |
| PW-7 | PIEZOMETER WELL |
| STW-7A 20.37 | STAFF GAUGE |
| 20.00 | GROUNDWATER CONTOUR AT 1.00 FOOT INTERVALS |
| | GROUNDWATER FLOW DIRECTION |
| NM | NOT MEASURED |

# SARASOTA COUNTY
# CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX
# GROUNDWATER CONTOUR MAP
# OCTOBER 12, 2018

JonesEdmunds

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: NAM-1 | SAMPLE ID: 29091 | DATE: 10/1/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 2.14 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 14.5 feet – 2.14 feet) X 0.16 gallons/foot = 2.0 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.2 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.2 | PURGING INITIATED AT: 0931 | PURGING ENDED AT: 1000 | TOTAL VOLUME PURGED (gallons): 3.0 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0950 | 2.0 | 2.0 | 0.11 | 2.73 | 6.98 | 27.79 | 900 | 0.09 | 0.52 | Clear | None |
| 0955 | 0.5 | 2.5 | 0.11 | 2.73 | 6.98 | 27.73 | 902 | 0.08 | 0.55 | Clear/Light Sheen | None |
| 1000 | 0.5 | 3.0 | 0.11 | 2.73 | 6.98 | 27.71 | 903 | 0.08 | 0.62 | ↓ | ↓ |
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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): Alison Eggleston | SAMPLING INITIATED AT: 1002 | SAMPLING ENDED AT: 1007 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 3.2 | TUBING MATERIAL CODE: S / HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| AG B | 1 | HDPE | 500 mL | HNO3 & wet ice | N/A | <2 | Metals | APP | 400 |
| AG C | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | <2 | Total Ammonia | APP | ↓ |
| AG A | 1 | HDPE | 1 L | H2SO4 & wet ice | N/A | N/A | Misc. Inorganics | APP | |
| | | | | | | | | | |
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REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: NAM-2 | SAMPLE ID: 29092 | DATE: 10/1/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 2.66 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE: 1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 14.5 feet – 2.66 feet) X 0.16 gallons/foot = 1.9 gallons

**EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.7 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.7 | PURGING INITIATED AT: 1128 | PURGING ENDED AT: 1156 | TOTAL VOLUME PURGED (gallons): 2.9 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1146 | 1.9 | 1.9 | 0.11 | 2.78 | 6.85 | 27.89 | 745 | 0.09 | 0.31 | Clear/Lt Sheen | None |
| 1151 | 0.5 | 2.4 | 0.11 | 2.78 | 6.85 | 27.89 | 742 | 0.08 | 0.22 | Clear/Lt Sheen | None |
| 1156 | 0.5 | 2.9 | 0.11 | 2.78 | 6.86 | 27.99 | 741 | 0.07 | 0.46 | Clear/Lt Sheen | None |
| | | | | | | | | | | | |
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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): Alison Eggleston | SAMPLING INITIATED AT: 1158 | SAMPLING ENDED AT: 1205 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 3.7 | TUBING MATERIAL CODE: S/ HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: (Y) ( N ) QC | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| QC A/B | 1 | HDPE | ~~500 mL~~ 250 mL QC | HNO3 & wet ice | N/A | \ | Metals | APP | 400 |
| QC B/C | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | \ | Total Ammonia | APP | 1 |
| QC C/A | 1 | HDPE | 1 L | H2SO4 & wet ice | N/A | N/A | Misc. Inorganics | APP | 1 |
| | | | | | | | | | |
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REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: NAM-3 | SAMPLE ID: 29093 | DATE: 10/1/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 2.37 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 14.5 feet – 2.37 feet) X 0.16 gallons/foot = 1.9 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.4 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.4 | PURGING INITIATED AT: 1241 | PURGING ENDED AT: 1309 | TOTAL VOLUME PURGED (gallons): 2.9 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmho/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/l or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1259 | 1.9 | 1.9 | 0.11 | 2.88 | 6.36 | 26.89 | 563 | 0.08 | 0.73 | Clear/Ltshen | None |
| 1304 | 0.5 | 2.4 | 0.11 | 2.88 | 6.41 | 26.89 | 564 | 0.09 | 0.91 | Clear/Ltshen | None |
| 1309 | 0.5 | 2.9 | 0.11 | 2.88 | 6.44 | 26.82 | 565 | 0.07 | 0.36 | Clear/Ltshen | None |
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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1311 | SAMPLING ENDED AT: 1315 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 3.4 | TUBING MATERIAL CODE: S / HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A/B | 1 | HDPE | ~~500~~ 250 mL | HNO3 & wet ice | N/A | | Metals | APP | 400 |
| C | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | | Total Ammonia | APP | ↓ |
| A | 1 | HDPE | 1 L | H2SO4 & wet ice | N/A | N/A | Misc. Inorganics | APP | |
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REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: NAM-4 | SAMPLE ID: 29094 | DATE: 10/1/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 5.24 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 14.5 feet – 5.24 feet) X 0.16 gallons/foot = 1.5 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.3 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.3 | PURGING INITIATED AT: 1341 | PURGING ENDED AT: 1403 | TOTAL VOLUME PURGED (gallons): 2.3 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1355 | 1.5 | 1.5 | 0.11 | 5.69 | 6.24 | 27.21 | 548 | 0.09 | 0.49 | Clear/Brown | None |
| 1359 | 0.4 | 1.9 | 0.11 | 5.69 | 6.24 | 27.14 | 551 | 0.08 | 0.53 | Clear/Brown | None |
| 1403 | 0.4 | 2.3 | 0.11 | 5.69 | 6.23 | 27.04 | 549 | 0.07 | 0.58 | Clear/Brown | None |
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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston~~ / Sarasota County Ronald Weeks | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1405 | SAMPLING ENDED AT: 1415 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 6.3 | TUBING MATERIAL CODE: S/HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| ~~A~~ B | 1 | HDPE | ~~500~~ 250 mL | HNO3 & wet ice | N/A | \ | Metals | APP | 400 |
| ~~B~~ C | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | \ | Total Ammonia | APP | \| |
| ~~C~~ A | 1 | HDPE | 1 L | H2SO4 & wet ice | N/A | N/A | Misc. Inorganics | APP | \| |
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REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-20A | SAMPLE ID: 27141 | DATE: 10/2/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 8.76 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 22.5 feet – 8.76 feet) X 0.16 gallons/foot = 2.2 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.8 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.0 | PURGING INITIATED AT: 0940 | PURGING ENDED AT: 1022 | TOTAL VOLUME PURGED (gallons): 3.4 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1008 | 2.2 | 2.2 | 0.08 | 10.63 | 6.60 | 28.89 | 585 | 0.09 | 1.02 | clear | none |
| 1015 | 0.6 | 2.8 | 0.08 | 10.67 | 6.62 | 28.79 | 570 | 0.09 | 0.66 | Clear | None |
| 1022 | 0.6 | 3.4 | 0.08 | 10.69 | 6.62 | 28.76 | 563 | 0.10 | 0.75 | Clear | None |
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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1025 | SAMPLING ENDED AT: 1035 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 11.0 | TUBING MATERIAL CODE: S & HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | APP | 300 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | APP | \| |
| AE F G | 1 | HDPE | 500 mL 250 AE | HNO3 & wet ice | N/A | — | Metals – App. I | APP | \| |
| AE B F | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | — | Nutrients – App. I | APP | \| |
| AE A A H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | APP | \| |
| | | | | | | | | | |

REMARKS: Slight odor in air while filling sample bottles. (Downwind of Active Face of L/F)

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-19A | SAMPLE ID: 27140 | DATE: 10/2/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: 12 feet to 22 feet | STATIC DEPTH TO WATER (feet): 7.83 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 22.5 feet – 7.83 feet) X 0.16 gallons/foot = 2.4 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.8 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.5 | PURGING INITIATED AT: 1128 | PURGING ENDED AT: 1214 | TOTAL VOLUME PURGED (gallons): 3.6 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1158 | 2.4 | 2.4 | 0.08 | 8.81 | 6.65 | 29.71 | 642 | 0.12 | 0.47 | Clear | None |
| 1206 | 0.6 | 3.0 | 0.08 | 8.83 | 6.65 | 29.74 | 655 | 0.11 | 0.98 | Clear | None |
| 1214 | 0.6 | 3.6 | 0.08 | 8.84 | 6.65 | 29.66 | 667 | 0.11 | 0.42 | Clear | None |
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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): Alison Eggleston | SAMPLING INITIATED AT: 1216 | SAMPLING ENDED AT: 1223 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 9.5 | TUBING MATERIAL CODE: S/ HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | APP | 300 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | APP | |
| QE FG | 1 | HDPE | ~~500 mL~~ 250 QE | HNO3 & wet ice | N/A | < 2 | Metals – App. I | APP | |
| QE BF | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | < 2 | Nutrients – App. I | APP | |
| QE H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | APP | |
| | | | | | | | | | |

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-18R | SAMPLE ID: 29095 | DATE: 10/2/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 9.48 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 18.63 feet – 9.48 feet) X 0.16 gallons/foot = 1.5 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5 | PURGING INITIATED AT: 1259 | PURGING ENDED AT: 1328 | TOTAL VOLUME PURGED (gallons): 2.3 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1318 | 1.5 | 1.5 ~~0.08~~ | 0.08 | 10.05 | 6.00 | 30.40 | 612 | 0.08 | 1.12 | lt sheen Clear | None |
| 1323 | 0.4 | 1.9 | 0.08 | 10.09 | 6.00 | 30.36 | 615 | 0.07 | 1.26 | lt sheen Clear | None |
| 1328 | 0.4 | 2.3 | 0.08 | 10.11 | 6.01 | 30.35 | 613 | 0.07 | 1.15 | lt sheen Clear | None |
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**WELL CAPACITY** (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

**PURGING EQUIPMENT CODES:** **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): Alison Eggleston | SAMPLING INITIATED AT: 1330 | SAMPLING ENDED AT: 1345 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 10.5 | TUBING MATERIAL CODE: S or HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: (Y) ( ~~N~~ ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | APP | 300 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | APP | |
| ~~AE~~ G | 1 | HDPE | ~~500~~ 250 mL | HNO3 & wet ice | N/A | — | Metals – App. I | APP | |
| ~~AE~~ F | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | — | Nutrients – App. I | APP | |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | APP | |
| | | | | | | | | | |

REMARKS:

**MATERIAL CODES:** **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

**SAMPLING EQUIPMENT CODES:** **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-1R | SAMPLE ID: 20585 | DATE: 10/3/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 3.03 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 15.7 feet – 3.03 feet) X 0.16 gallons/foot = 2.0 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.0 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.0 | PURGING INITIATED AT: 0900 | PURGING ENDED AT: 0946 | TOTAL VOLUME PURGED (gallons): 3.8 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0925 | 2.0 | 2.0 | 0.08 | 3.57 | 6.15 | 27.57 | 307 | 0.08 | 0.92 | Lt Amber | None |
| 0932 | 0.6 | 2.6 | 0.08 | 3.59 | 6.16 | 27.61 | 321 | 0.06 | 1.00 | Lt Amber | None |
| 0939 | 0.6 | 3.2 | 0.08 | 3.60 | 6.19 | 27.74 | 330 | 0.06 | 0.91 | Lt Amber | None |
| 0946 | 0.6 | 3.8 | 0.08 | 3.62 | 6.18 | 27.66 | 336 | 0.06 | 0.96 | Lt Amber | None |
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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): Ali Eggleston | SAMPLING INITIATED AT: 0948 | SAMPLING ENDED AT: 0955 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 4.0 | TUBING MATERIAL CODE: S / HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | APP | 300 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | APP | \| |
| AG F G | 1 | HDPE | ~~500 mL~~ 250 ml | HNO3 & wet ice | N/A | \| | Metals – App. I | APP | \| |
| AG F | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | \| | Nutrients – App. I | APP | \| |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | APP | \| |
| | | | | | | | | | |

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-8A | SAMPLE ID: 21453 | DATE: 10/3/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 14.70 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 22.4 feet – 14.70 feet) X 0.16 gallons/foot = 1.3 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.7 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.7 | PURGING INITIATED AT: 1027 | PURGING ENDED AT: 1054 | TOTAL VOLUME PURGED (gallons): 2.1 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) umhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1044 | 1.3 | 1.3 | 0.08 | 15.27 | 6.22 | 27.48 | 1093 | 0.11 | 2.40 | Clear | None |
| 1049 | 0.4 | ~~0.4~~ 1.7 | 0.08 | 15.29 | 6.23 | 27.44 | 1103 | 0.10 | 2.58 | Clear | None |
| 1054 | 0.4 | ~~0.4~~ 2.1 | 0.08 | 15.30 | 6.23 | 27.52 | 1106 | 0.11 | 2.60 | Clear | None |
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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston~~ / ~~Sarasota County~~ QE Ronald Moore | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1100 | SAMPLING ENDED AT: 1115 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 15.7 | TUBING MATERIAL CODE: S / HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | NA | 8260-vocs App. I | APP | 300 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | APP | \| |
| QE FG | 1 | HDPE | ~~500~~ 250 mL QE | HNO3 & wet ice | N/A | \| | Metals – App. I | APP | \| |
| QE FF | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | \| | Nutrients – App. I | APP | \| |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | APP | \| |
| | | | | | | | | | |

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-9 | SAMPLE ID: 4509 | DATE: 10/3/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 11.40 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= ( 22.8 feet – 11.40 feet) X 0.16 gallons/foot = 1.9 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.4 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.4 | PURGING INITIATED AT: 1152 | PURGING ENDED AT: 1220 | TOTAL VOLUME PURGED (gallons): 2.9 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1210 | 1.9 | 1.9 | 0.11 | ~~11.90~~ ~~10.90~~ | 6.56 | 30.24 | 1451 | 0.17 | 1.33 | Sheen Clear | None |
| 1215 | 0.5 | 2.4 | 0.11 | ~~11.90~~ ~~10.90~~ | 6.56 | 30.25 | 1459 | 0.14 | 1.53 | Sheen Clear | None |
| 1220 | 0.5 | 2.9 | 0.11 | 11.90 | 6.57 | 30.30 | 1487 | 0.11 | 3.86 | Sheen Clear | None |
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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1222 | SAMPLING ENDED AT: 1230 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 12.4 | TUBING MATERIAL CODE: S / HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | APP | 400 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | APP | \| |
| OE FG | 1 | HDPE | ~~500 mL~~ 250 mL | HNO3 & wet ice | N/A | \| | Metals – App. I | APP | \| |
| OE FF | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | \| | Nutrients – App. I | APP | \| |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | APP | \| |
| | | | | | | | | | |

REMARKS:

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-17 | SAMPLE ID: 23033 | DATE: 10/4-18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 27.05 | PURGE PUMP TYPE OR BAILER: ESP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 32.6 feet – 27.05 feet) X 0.16 gallons/foot = 0.9 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28.0 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28.0 | PURGING INITIATED AT: 0946 | PURGING ENDED AT: 1016 | TOTAL VOLUME PURGED (gallons): 1.5 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1004 | 0.9 | 0.9 | 0.05 | 28.0-28.5 | 6.37 | 28.26 | 1798 | 0.04 | 2.24 | Sheen Lt Amber | None |
| 1010 | 0.3 | 1.2 | 0.05 | 28.0-28.5 | 6.36 | 28.06 | 1800 | 0.03 | 4.67 | Sheen Lt Amber | None |
| 1016 | 0.3 | 1.5 | 0.05 | 28.0-28.5 | 6.36 | 28.06 | 1810 | 0.03 | 1.39 | Sheen Lt Amber | None |
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**WELL CAPACITY** (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

**PURGING EQUIPMENT CODES:** **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston~~/ Ronald Moore Sarasota County | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1020 | SAMPLING ENDED AT: 1040 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 28.0 | TUBING MATERIAL CODE: LDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP ( Y ) N | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | ESP | 200 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | ESP | \| |
| ~~G~~ F G | 1 | HDPE | ~~500 mL~~ 250 mL | HNO3 & wet ice | N/A | \| | Metals – App. I | ESP | \| |
| ~~G~~ F F | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | \| | Nutrients – App. I | ESP | \| |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | ESP | \| |
| | | | | | | | | | |

REMARKS:

**MATERIAL CODES:** **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

**SAMPLING EQUIPMENT CODES:** **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-16 | SAMPLE ID: 23032 | DATE: 10/4/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 23.80 | PURGE PUMP TYPE OR BAILER: ESP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 30.3 feet – 23.80 feet) X 0.16 gallons/foot = 1.0 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.80 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.80 | PURGING INITIATED AT: 1153 | PURGING ENDED AT: 1225 | TOTAL VOLUME PURGED (gallons): 1.6 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) umhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1213 | 1.0 | 1.0 | 0.05 | 24.3-24.8 | 6.32 | 29.17 | 2422 | 0.07 | 0.78 | Sheen Lt. Amber | None |
| 1219 | 0.3 | 1.3 | 0.05 | 24.3-24.8 | 6.33 | 29.22 | 2420 | 0.05 | 2.31 | Sheen Lt. Amber | None |
| 1225 | 0.3 | 1.6 | 0.05 | 24.3-24.8 | 6.33 | 29.20 | 2422 | 0.04 | 1.03 | Sheen Lt. Amber | None |
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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): Alison Eggleston | SAMPLING INITIATED AT: 1230 | SAMPLING ENDED AT: 1240 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 24.80 | TUBING MATERIAL CODE: LDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP ( Y ) N | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | ESP | 200 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | ESP | |
| QR F G | 1 | HDPE | ~~500 mL~~ 250 mL | HNO3 & wet ice | N/A | | Metals – App. I | ESP | |
| QR F | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | | Nutrients – App. I | ESP | |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | ESP | |
| | | | | | | | | | |

REMARKS: Heavy Sheen

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-15 | SAMPLE ID: 23031 | DATE: 10/8/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 23.51 | PURGE PUMP TYPE OR BAILER: ESP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 30.5 feet – 23.51 feet) X 0.16 gallons/foot = 1.2 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5 | PURGING INITIATED AT: 0956 | PURGING ENDED AT: 1032 | TOTAL VOLUME PURGED (gallons): 1.8 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) 24.0-24.5 Rec | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1020 | 1.2 | 1.2 | 0.05 | ~~24.5-25.0~~ | 6.82 | 29.01 | 3436 | 0.41 | 3.99 | Lt Sheen Amber | None |
| 1026 | 0.3 | 1.5 | 0.05 | ~~24.5-25.0~~ | 6.82 | 29.10 | 3437 | 0.32 | 4.29 | Lt Sheen Amber | None |
| 1032 | 0.3 | 1.8 | 0.05 | ~~24.5-25.0~~ | 6.81 | 29.14 | 3435 | 0.34 | 8.26 | Lt Sheen Amber | None |
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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston~~ / Sarasota County Ronald Moore | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1035 | SAMPLING ENDED AT: 1100 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 24.5 | TUBING MATERIAL CODE: LDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP ( Y ) N | TUBING Y ( N (replaced) ) | DUPLICATE: (Y) ( ~~N~~ ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | ESP | 200 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | ESP | \| |
| QE/FG | 1 | HDPE | ~~500~~ 250 mL | HNO3 & wet ice | N/A | \| | Metals – App. I | ESP | \| |
| QE/F | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | \| | Nutrients – App. I | ESP | \| |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | ESP | \| |
| | | | | | | | | | |

REMARKS: Heavy sheen on water

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-10R | SAMPLE ID: 4510 | DATE: 10/8/18 |

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 19.31 | PURGE PUMP TYPE OR BAILER: ESP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 30.2 feet – 19.31 feet) X 0.16 gallons/foot = 1.8 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20.3 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.3 | PURGING INITIATED AT: 1156 | PURGING ENDED AT: 1252 | TOTAL VOLUME PURGED (gallons): 2.8 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1232 | 1.8 | 1.8 | 0.05 | 19.8-20.3 | 6.35 | 30.18 | 1642 | 0.07 | 0.73 | Slight Amber | None |
| 1242 | 0.5 | 2.3 | 0.05 | " | 6.36 | 30.34 | 1644 | 0.06 | 4.76 | Slight Amber | None |
| ~~1252~~ 1252 | 0.5 | 2.8 | 0.05 | " | 6.37 | 30.25 | 1642 | 0.08 | 0.66 | Slight Amber | None |
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**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston~~ Ronald Morris / Sarasota County | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1255 | SAMPLING ENDED AT: 1300 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 20.3 | TUBING MATERIAL CODE: LDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | ESP | 200 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | ESP | " |
| ~~GE~~ FG | 1 | HDPE | ~~500 mL~~ 250 mL | HNO3 & wet ice | N/A | " | Metals – App. I | ESP | " |
| ~~GE~~ F | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | " | Nutrients – App. I | ESP | " |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | ESP | " |
| | | | | | | | | | |

REMARKS: Heavy Sheen on water.

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING EQUIPMENT CODES:** APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | Sarasota County | Report To: | Mr. Cesar Rodriguez | Attention: | |
| Address: | 1255 T. Mabry Carlton Parkway | Copy To: | | Company Name: | |
| Venice, FL 34292 | | | | Address: | |
| Email: | | Purchase Order #: | 181191 | Pace Quote: | |
| Phone: | Fax: | Project Name: | Surface Water Central cty | Pace Project Manager: | Martha.Montero@pacelabs.com, |
| Requested Due Date: | | Project #: | | Pace Profile #: | 833 #4 |

| Regulatory Agency | State / Location |
|---|---|
| | FL |

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | Preservatives: H2SO4 /ice | Preservatives: HNO3 | Preservatives: HCl | Preservatives: NaOH | Preservatives: Na2S2O3 | Preservatives: Methanol | Preservatives: Other | Requested Analysis Filtered (Y/N): Analyses Test Y/N | Requested Analysis Filtered (Y/N): Analyses Test COD | Residual Chlorine (Y/N) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Pond 1 (at STW-1) 28824 | WT | | 12/17/18 | 1250 | | | | 1 | | x | | | | | | | | 1 | | |
| 2 | Pond 2 (at STW-2) 28825 | WT | | 12/17/18 | 1325 | | | | 1 | | x | | | | | | | | 1 | | |
| 3 | Field Blank | WT | | 12/17/18 | 1300 | | | | 1 | | x | | | | | | | | 1 | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | | | | | | | | | | |

Please use Adapt

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| surface waters for Central County | Ronald Moore / Sarasota County | 12/20/18 | 0915 | | | | |
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| SAMPLER NAME AND SIGNATURE | | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|
| PRINT Name of SAMPLER: | Ronald Moore | Ron Moore | | | | |
| SIGNATURE of SAMPLER: | | DATE Signed: 12/20/18 | | | | |

DEP-SOP-001/01
FT 1100 Field Measurement of Hydrogen Ion Activity (pH)

**Form FD 9000-7: Field Parameter Data Sheet for Surface Water**

SURVEY/PROJECT: Central County 2nd Semi Annual SW SAMPLERS: Ronald Moore METER # YSI-556 HACH 2100Q

| STATION NUMBER | STATION DESCRIPTION | PARAMETER | DATE | TIME | TOTAL DEPTH | SAMPLE DEPTH | WATER TEMP | DO | %SAT DO | COND | SALINITY | PH | TURBIDITY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | UNIT | yy/mm/dd | hr:min | feet | feet | Celsius | mg/L | % | µS/cm | ppt | su | NTU |
| | | STORET CODE | 73672 | | 81903 | 68 | 10 | 299 | 301 | 94 | 480 | 400 | 82078 |
| 28824 | Pond 1 | | 18/12/17 | 1250 | 1.5 | 0.5 | 16.80 | 3.41 | – | 616 | – | 6.05 | 4.03 |
| 28825 | Pond 2 | | 18/12/17 | 1325 | 1.5 | 0.5 | 20.06 | 6.58 | – | 520 | – | 7.64 | 6.85 |
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FIELD CONDITIONS FOR STATION# _____ AT TIME_____:

CLOUD COVER (%): _____ WIND DIRECTION: _____ TIDAL STAGE: _____

PREVIOUS RAINFALL: _____ WIND SPEED (MPH/KNOTS): _____ WAVE CONDITIONS: _____

Note: This Sheet is used for recording Sample Data – Calibration information must also be documented

Revision Date: February 1, 2004

**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

October 18, 2018

**REVIEWED**
***By Cesar Rodriguez-Palacios at 10:14 am, Dec 05, 2018***

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

RE: Project: Central Cty NAM wells
Pace Project No.: 35421436

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County



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without the written consent of Pace Analytical Services, LLC.

**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

# CERTIFICATIONS

Project: Central Cty NAM wells
Pace Project No.: 35421436

**Ormond Beach Certification IDs**

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

**Tampa Certification IDs**

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## SAMPLE SUMMARY

Project: Central Cty NAM wells
Pace Project No.: 35421436

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **35421436001** | **NAM-1** | Water | 10/01/18 10:02 | 10/02/18 15:40 |
| **35421436002** | **NAM-2** | Water | 10/01/18 11:58 | 10/02/18 15:40 |
| **35421436003** | **NAM-3** | Water | 10/01/18 13:11 | 10/02/18 15:40 |
| **35421436004** | **NAM-4** | Water | 10/01/18 14:05 | 10/02/18 15:40 |
| **35421436005** | **EQ blank** | Water | 10/01/18 09:15 | 10/02/18 15:40 |
| **35421436006** | **Duplicate** | Water | 10/01/18 11:58 | 10/02/18 15:40 |



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## SAMPLE ANALYTE COUNT

Project: Central Cty NAM wells
Pace Project No.: 35421436

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **35421436001** | **NAM-1** | EPA 6010 | SC1 | 2 | PASI-O |
| | | EPA 6020 | KPP | 1 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| **35421436002** | **NAM-2** | EPA 6010 | SC1 | 2 | PASI-O |
| | | EPA 6020 | KPP | 1 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| **35421436003** | **NAM-3** | EPA 6010 | SC1 | 2 | PASI-O |
| | | EPA 6020 | KPP | 1 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| **35421436004** | **NAM-4** | EPA 6010 | SC1 | 2 | PASI-O |
| | | EPA 6020 | KPP | 1 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| **35421436005** | **EQ blank** | EPA 6010 | SC1 | 2 | PASI-O |
| | | EPA 6020 | KPP | 1 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| **35421436006** | **Duplicate** | EPA 6010 | SC1 | 2 | PASI-O |
| | | EPA 6020 | KPP | 1 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 350.1 | CLL | 1 | PASI-O |



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## ANALYTICAL RESULTS

Project: Central Cty NAM wells
Pace Project No.: 35421436

**Sample: NAM-1** **Lab ID: 35421436001** Collected: 10/01/18 10:02 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.98** | Std. Units | | | 1 | | 10/01/18 10:02 | | |
| Field Temperature | **27.71** | deg C | | | 1 | | 10/01/18 10:02 | | |
| Field Specific Conductance | **903** | umhos/cm | | | 1 | | 10/01/18 10:02 | | |
| Oxygen, Dissolved | **0.08** | mg/L | | | 1 | | 10/01/18 10:02 | 7782-44-7 | |
| Turbidity | **0.62** | NTU | | | 1 | | 10/01/18 10:02 | | |
| Water Level(NGVD) | **17.73** | feet | | | 1 | | 10/01/18 10:02 | | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Iron | **3680** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 21:08 | 7439-89-6 | |
| Manganese | **5.9** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:08 | 7439-96-5 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Arsenic | **5.8** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 18:41 | 7440-38-2 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **514** | mg/L | 5.0 | 5.0 | 1 | | 10/03/18 14:20 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.40** | mg/L | 0.050 | 0.035 | 1 | | 10/03/18 09:37 | 7664-41-7 | |

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## ANALYTICAL RESULTS

Project: Central Cty NAM wells
Pace Project No.: 35421436

**Sample: NAM-2** **Lab ID: 35421436002** Collected: 10/01/18 11:58 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.86** | Std. Units | | | 1 | | 10/01/18 11:58 | | |
| Field Temperature | **27.99** | deg C | | | 1 | | 10/01/18 11:58 | | |
| Field Specific Conductance | **741** | umhos/cm | | | 1 | | 10/01/18 11:58 | | |
| Oxygen, Dissolved | **0.07** | mg/L | | | 1 | | 10/01/18 11:58 | 7782-44-7 | |
| Turbidity | **0.46** | NTU | | | 1 | | 10/01/18 11:58 | | |
| Water Level(NGVD) | **17.36** | feet | | | 1 | | 10/01/18 11:58 | | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Iron | **3020** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 21:10 | 7439-89-6 | |
| Manganese | **4.0 I** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:10 | 7439-96-5 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Arsenic | **11.6** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 18:42 | 7440-38-2 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **430** | mg/L | 5.0 | 5.0 | 1 | | 10/03/18 14:21 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.22** | mg/L | 0.050 | 0.035 | 1 | | 10/03/18 09:42 | 7664-41-7 | |

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## ANALYTICAL RESULTS

Project: Central Cty NAM wells
Pace Project No.: 35421436

**Sample: NAM-3** **Lab ID: 35421436003** Collected: 10/01/18 13:11 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.44** | Std. Units | | | 1 | | 10/01/18 13:11 | | |
| Field Temperature | **26.82** | deg C | | | 1 | | 10/01/18 13:11 | | |
| Field Specific Conductance | **565** | umhos/cm | | | 1 | | 10/01/18 13:11 | | |
| Oxygen, Dissolved | **0.07** | mg/L | | | 1 | | 10/01/18 13:11 | 7782-44-7 | |
| Turbidity | **0.36** | NTU | | | 1 | | 10/01/18 13:11 | | |
| Water Level(NGVD) | **18.25** | feet | | | 1 | | 10/01/18 13:11 | | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Iron | **6440** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 21:13 | 7439-89-6 | |
| Manganese | **8.5** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:13 | 7439-96-5 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Arsenic | **3.9** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 18:44 | 7440-38-2 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **328** | mg/L | 5.0 | 5.0 | 1 | | 10/03/18 14:21 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.29** | mg/L | 0.050 | 0.035 | 1 | | 10/03/18 09:44 | 7664-41-7 | |

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## ANALYTICAL RESULTS

Project: Central Cty NAM wells
Pace Project No.: 35421436

**Sample: NAM-4** **Lab ID: 35421436004** Collected: 10/01/18 14:05 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.23** | Std. Units | | | 1 | | 10/01/18 14:05 | | |
| Field Temperature | **27.04** | deg C | | | 1 | | 10/01/18 14:05 | | |
| Field Specific Conductance | **549** | umhos/cm | | | 1 | | 10/01/18 14:05 | | |
| Oxygen, Dissolved | **0.07** | mg/L | | | 1 | | 10/01/18 14:05 | 7782-44-7 | |
| Turbidity | **0.58** | NTU | | | 1 | | 10/01/18 14:05 | | |
| Water Level(NGVD) | **17.42** | feet | | | 1 | | 10/01/18 14:05 | | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Iron | **3990** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 21:22 | 7439-89-6 | |
| Manganese | **5.3** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:22 | 7439-96-5 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Arsenic | **7.6** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 18:45 | 7440-38-2 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **323** | mg/L | 5.0 | 5.0 | 1 | | 10/03/18 14:21 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.083** | mg/L | 0.050 | 0.035 | 1 | | 10/03/18 09:50 | 7664-41-7 | |

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## ANALYTICAL RESULTS

Project: Central Cty NAM wells
Pace Project No.: 35421436

**Sample: EQ blank** **Lab ID: 35421436005** Collected: 10/01/18 09:15 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Iron | **9.2 U** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 21:25 | 7439-89-6 | |
| Manganese | **0.42 U** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:25 | 7439-96-5 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Arsenic | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 18:47 | 7440-38-2 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **5.0 U** | mg/L | 5.0 | 5.0 | 1 | | 10/03/18 14:21 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.035 U** | mg/L | 0.050 | 0.035 | 1 | | 10/03/18 09:52 | 7664-41-7 | |

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## ANALYTICAL RESULTS

Project: Central Cty NAM wells
Pace Project No.: 35421436

**Sample: Duplicate** **Lab ID: 35421436006** Collected: 10/01/18 11:58 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.86** | Std. Units | | | 1 | | 10/01/18 11:58 | | |
| Field Temperature | **27.99** | deg C | | | 1 | | 10/01/18 11:58 | | |
| Field Specific Conductance | **741** | umhos/cm | | | 1 | | 10/01/18 11:58 | | |
| Oxygen, Dissolved | **0.07** | mg/L | | | 1 | | 10/01/18 11:58 | 7782-44-7 | |
| Turbidity | **0.46** | NTU | | | 1 | | 10/01/18 11:58 | | |
| Water Level(NGVD) | **17.36** | feet | | | 1 | | 10/01/18 11:58 | | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Iron | **2920** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 21:28 | 7439-89-6 | |
| Manganese | **3.8 I** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:28 | 7439-96-5 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Arsenic | **11.7** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 18:49 | 7440-38-2 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **426** | mg/L | 5.0 | 5.0 | 1 | | 10/03/18 14:22 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.22** | mg/L | 0.050 | 0.035 | 1 | | 10/03/18 09:53 | 7664-41-7 | |

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## QUALITY CONTROL DATA

Project: Central Cty NAM wells
Pace Project No.: 35421436

QC Batch: 483216 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

METHOD BLANK: 2614848 Matrix: Water
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Iron | ug/L | 9.2 U | 40.0 | 9.2 | 10/05/18 20:48 | |
| Manganese | ug/L | 0.42 U | 5.0 | 0.42 | 10/05/18 20:48 | |

LABORATORY CONTROL SAMPLE: 2614849

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Iron | ug/L | 2500 | 2600 | 104 | 80-120 | |
| Manganese | ug/L | 250 | 264 | 106 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614851 2614852

| Parameter | Units | 35422069002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | ug/L | 88400 | 2500 | 2500 | 87100 | 85300 | -51 | -123 | 75-125 | 2 | 20 | J(M1), L |
| Manganese | ug/L | 10.5 | 250 | 250 | 267 | 245 | 103 | 94 | 75-125 | 9 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty NAM wells
Pace Project No.: 35421436

QC Batch: 483215 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

METHOD BLANK: 2614821 Matrix: Water
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | ug/L | 0.50 U | 1.0 | 0.50 | 10/06/18 19:13 | |

LABORATORY CONTROL SAMPLE: 2614822

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | ug/L | 50 | 48.0 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614823 2614824

| Parameter | Units | 35421363001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 9.6 | 50 | 50 | 60.1 | 64.3 | 101 | 109 | 75-125 | 7 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty NAM wells
Pace Project No.: 35421436

QC Batch: 482560 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

METHOD BLANK: 2611496 Matrix: Water
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 5.0 U | 5.0 | 5.0 | 10/03/18 14:18 | |

LABORATORY CONTROL SAMPLE: 2611497

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 300 | 292 | 97 | 90-110 | |

SAMPLE DUPLICATE: 2611498

| Parameter | Units | 35421115001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 213 | 211 | 1 | 5 | |

SAMPLE DUPLICATE: 2611499

| Parameter | Units | 35421272002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 421 | 426 | 1 | 5 | |

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## QUALITY CONTROL DATA

Project: Central Cty NAM wells
Pace Project No.: 35421436

QC Batch: 482507 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

METHOD BLANK: 2611276 Matrix: Water
Associated Lab Samples: 35421436001, 35421436002, 35421436003, 35421436004, 35421436005, 35421436006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.035 U | 0.050 | 0.035 | 10/03/18 09:33 | |

LABORATORY CONTROL SAMPLE: 2611277

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 1 | 1.0 | 100 | 90-110 | |

MATRIX SPIKE SAMPLE: 2611279

| Parameter | Units | 35421436001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.40 | 1 | 1.4 | 95 | 90-110 | |

SAMPLE DUPLICATE: 2611278

| Parameter | Units | 35421436001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.40 | 0.40 | 0 | 20 | |

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# QUALIFIERS

Project: Central Cty NAM wells
Pace Project No.: 35421436

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-O | Pace Analytical Services - Ormond Beach |
| PASI-Tp | Pace Analytical Services - Tampa |

## ANALYTE QUALIFIERS

| | |
|---|---|
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| U | Compound was analyzed for but not detected. |
| J(M1) | Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| L | Off-scale high. Actual value is known to be greater than value given. |



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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central Cty NAM wells
Pace Project No.: 35421436

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **35421436001** | **NAM-1** | | | | |
| **35421436002** | **NAM-2** | | | | |
| **35421436003** | **NAM-3** | | | | |
| **35421436004** | **NAM-4** | | | | |
| **35421436006** | **Duplicate** | | | | |
| **35421436001** | **NAM-1** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421436002** | **NAM-2** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421436003** | **NAM-3** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421436004** | **NAM-4** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421436005** | **EQ blank** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421436006** | **Duplicate** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421436001** | **NAM-1** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421436002** | **NAM-2** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421436003** | **NAM-3** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421436004** | **NAM-4** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421436005** | **EQ blank** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421436006** | **Duplicate** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421436001** | **NAM-1** | SM 2540C | 482560 | | |
| **35421436002** | **NAM-2** | SM 2540C | 482560 | | |
| **35421436003** | **NAM-3** | SM 2540C | 482560 | | |
| **35421436004** | **NAM-4** | SM 2540C | 482560 | | |
| **35421436005** | **EQ blank** | SM 2540C | 482560 | | |
| **35421436006** | **Duplicate** | SM 2540C | 482560 | | |
| **35421436001** | **NAM-1** | EPA 350.1 | 482507 | | |
| **35421436002** | **NAM-2** | EPA 350.1 | 482507 | | |
| **35421436003** | **NAM-3** | EPA 350.1 | 482507 | | |
| **35421436004** | **NAM-4** | EPA 350.1 | 482507 | | |
| **35421436005** | **EQ blank** | EPA 350.1 | 482507 | | |
| **35421436006** | **Duplicate** | EPA 350.1 | 482507 | | |



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Pace Analytical

# CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

WO# : 35421436

35421436

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | Sarasota County | Report To: | Mr. Cesar Rodriguez | Attention: | |
| Address: | 1255 T. Mabry Carlton Parkway | Copy To: | | Company Name: | |
| Venice, FL 34292 | | | | Address: | |
| Email: | | Purchase Order #: | 180736 | Pace Quote: | |
| Phone: | 941-650-9834 Fax: | Project Name: | Central Cty NAM wells | Pace Project Manager: | Martha.montero@pacelabs.com, |
| Requested Due Date: | | Project #: | | Pace Profile #: | 833 L7 |

Regulatory Agency

State / Location: FL

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Requested Analysis Filtered (Y/N) Analyses Test Y/N | Unpreserved | H2SO4 | HNO3 | Residual Chlorine (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NAM-1 | WT | | 10/1/18 | 1002 | | | | 3 | | | | | | | | | | TDS, NOX: A | metal by 6010/6020 As Fe B: B | Total Ammonia-N: C | | |
| 2 | NAM-2 | WT | | 10/1/18 | 1158 | | | | 3 | | | | | | | | | | A | B | C | | |
| 3 | NAM-3 | WT | | 10/1/18 | 1311 | | | | 3 | | | | | | | | | | A | B | C | | |
| 4 | NAM-4 | WT | | 10/1/18 | 1405 | | | | 3 | | | | | | | | | | A | B | C | | |
| 5 | EQ field blank | WT | | 10/1/18 | 0915 | | | | 3 | | | | | | | | | | A | B | C | | |
| 6 | Duplicate | WT | | 10/1/18 | 1158 | | | | 3 | | | | | | | | | | A | B | C | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | |

PLEASE USE ADA

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| Sarasota Central Landfill NAM wells, profile 833 #7 | Alison Eggleston | 10/2/18 | 1400 | | 10/2/18 | 1400 | D03 | | | |
| | | 10/2/18 | 1540 | | 10-2-18 | 1540 | 1.3 | X | N | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

PRINT Name of SAMPLER: Alison Eggleston

SIGNATURE of SAMPLER:

DATE Signed:

| Pace Analytical Florida Laboratory | Document Name: Sample Condition Upon Receipt Form | Document Revised: May 30, 2018 |
|---|---|---|
| | Document No.: F-FL-C-007 rev. 13 | Issuing Authority: Pace Florida Quality Office |

# Sample Condition Upon Receipt Form (SCUR)

**Project #** WO#: 35421436

**Project Manager:** PM: MIM **Due Date:** 10/16/18

**Client:** CLIENT: SARCOU

**Date and Initials of person:**
Examining contents: MVL
Label: 10/2/18
Deliver:
pH:

Thermometer Used: T-203 Date: 10-2-18 Time: 1540 Initials: MJM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

| | | | | | |
|---|---|---|---|---|---|
| Cooler #1 Temp.°C | 1.3 (Visual) | 0.0 (Correction Factor) | 1.3 (Actual) | ☑ | Samples on ice, cooling process has begun |
| Cooler #2 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ | Samples on ice, cooling process has begun |
| Cooler #3 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ | Samples on ice, cooling process has begun |
| Cooler #4 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ | Samples on ice, cooling process has begun |
| Cooler #5 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ | Samples on ice, cooling process has begun |
| Cooler #6 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ | Samples on ice, cooling process has begun |

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

**Shipping Method:** ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

**Billing:** ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

**Tracking #**

**Custody Seal on Cooler/Box Present:** ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

**Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

**Samples shorted to lab (If Yes, complete)** Shorted Date: Shorted Time: Qty:

| | | Comments: |
|---|---|---|
| Chain of Custody Present | ☑ Yes ☐ No ☐ N/A | |
| Chain of Custody Filled Out | ☑ Yes ☐ No ☐ N/A | |
| Relinquished Signature & Sampler Name COC | ☑ Yes ☐ No ☐ N/A | |
| Samples Arrived within Hold Time | ☑ Yes ☐ No ☐ N/A | |
| Rush TAT requested on COC | ☐ Yes ☑ No ☐ N/A | |
| Sufficient Volume | ☑ Yes ☐ No ☐ N/A | |
| Correct Containers Used | ☑ Yes ☐ No ☐ N/A | |
| Containers Intact | ☑ Yes ☐ No ☐ N/A | |
| Sample Labels match COC (sample IDs & date/time of collection) | ☑ Yes ☐ No ☐ N/A | |
| All containers needing acid/base preservation have been checked. | ☑ Yes ☐ No ☐ N/A | Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials: |
| All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates | ☑ Yes ☐ No ☐ N/A | |
| Headspace in VOA Vials? ( >6mm): | ☐ Yes ☐ No ☑ N/A | |
| Trip Blank Present: | ☐ Yes ☐ No ☑ N/A | |

**Client Notification/ Resolution:**
Person Contacted: Date/Time:

**Comments/ Resolution (use back for additional comments):**

Project Manager Review: Date:

**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

October 18, 2018

**REVIEWED**
***By Cesar Rodriguez-Palacios at 11:43 am, Jan 08, 2019***

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

RE: Project: Central City
Pace Project No.: 35421718

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County

**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

# CERTIFICATIONS

Project: Central City
Pace Project No.: 35421718

**Ormond Beach Certification IDs**

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

**Tampa Certification IDs**

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Central City
Pace Project No.: 35421718

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **35421718001** | **MW-1R (20585)** | Water | 10/03/18 09:48 | 10/03/18 17:50 |
| **35421718002** | **MW-8A (21453)** | Water | 10/03/18 11:00 | 10/03/18 17:50 |
| **35421718003** | **MW-9 (4509)** | Water | 10/03/18 12:22 | 10/03/18 17:50 |
| **35421718004** | **Trip Blank 8260 #1** | Water | 10/03/18 09:48 | 10/03/18 17:50 |
| **35421718005** | **Trip Blank 8011 #1** | Water | 10/03/18 09:48 | 10/03/18 17:50 |



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## SAMPLE ANALYTE COUNT

Project: Central City
Pace Project No.: 35421718

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **35421718001** | **MW-1R (20585)** | EPA 8011 | MMB | 2 | PASI-O |
| | | EPA 6010 | SC1 | 15 | PASI-O |
| | | EPA 6020 | FDV, KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | BTN | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | SEW | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | AMP | 1 | PASI-O |
| **35421718002** | **MW-8A (21453)** | EPA 8011 | MMB | 2 | PASI-O |
| | | EPA 6010 | SC1 | 15 | PASI-O |
| | | EPA 6020 | FDV, KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | BTN | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | SEW | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | AMP | 1 | PASI-O |
| **35421718003** | **MW-9 (4509)** | EPA 8011 | MMB | 2 | PASI-O |
| | | EPA 6010 | SC1 | 15 | PASI-O |
| | | EPA 6020 | FDV, KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | BTN | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | SEW | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | AMP | 1 | PASI-O |
| **35421718004** | **Trip Blank 8260 #1** | EPA 8260 | SK1 | 48 | PASI-O |
| **35421718005** | **Trip Blank 8011 #1** | EPA 8011 | MMB | 2 | PASI-O |



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## ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

**Sample: MW-1R (20585)** **Lab ID: 35421718001** Collected: 10/03/18 09:48 Received: 10/03/18 17:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.18** | Std. Units | | | 1 | | 10/03/18 09:48 | | |
| Field Temperature | **27.66** | deg C | | | 1 | | 10/03/18 09:48 | | |
| Field Specific Conductance | **336** | umhos/cm | | | 1 | | 10/03/18 09:48 | | |
| Oxygen, Dissolved | **0.06** | mg/L | | | 1 | | 10/03/18 09:48 | 7782-44-7 | |
| Turbidity | **0.96** | NTU | | | 1 | | 10/03/18 09:48 | | |
| Water Level(NGVD) | **21.40** | feet | | | 1 | | 10/03/18 09:48 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0063 U** | ug/L | 0.020 | 0.0063 | 1 | 10/08/18 08:58 | 10/09/18 01:35 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0074 U** | ug/L | 0.0098 | 0.0074 | 1 | 10/08/18 08:58 | 10/09/18 01:35 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **37.5** | ug/L | 10.0 | 0.84 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7440-43-9 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7440-47-3 | |
| Cobalt | **0.96 U** | ug/L | 10.0 | 0.96 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7440-50-8 | |
| Iron | **2380** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7439-92-1 | |
| Manganese | **70.9** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7439-96-5 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7440-22-4 | |
| Sodium | **7.6** | mg/L | 2.0 | 0.27 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7440-23-5 | |
| Vanadium | **6.4 I** | ug/L | 10.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/05/18 01:39 | 10/05/18 21:42 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:53 | 7440-36-0 | |
| Arsenic | **3.5** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:53 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 19:00 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/16/18 12:08 | 10/17/18 14:52 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/12/18 17:06 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:06 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/12/18 17:06 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/12/18 17:06 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/12/18 17:06 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:06 | 78-93-3 | |

## REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

**Sample: MW-1R (20585)** **Lab ID: 35421718001** Collected: 10/03/18 09:48 Received: 10/03/18 17:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:06 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/12/18 17:06 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/12/18 17:06 | 75-00-3 | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/12/18 17:06 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/12/18 17:06 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/12/18 17:06 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:06 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/12/18 17:06 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/12/18 17:06 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:06 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/12/18 17:06 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/12/18 17:06 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:06 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/12/18 17:06 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/12/18 17:06 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/12/18 17:06 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:06 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/12/18 17:06 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 101 | % | 70-130 | | 1 | | 10/12/18 17:06 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 93 | % | 70-130 | | 1 | | 10/12/18 17:06 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 10/12/18 17:06 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **261** | mg/L | 5.0 | 5.0 | 1 | | 10/09/18 14:59 | | |

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## ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

**Sample: MW-1R (20585)** **Lab ID: 35421718001** Collected: 10/03/18 09:48 Received: 10/03/18 17:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **8.7** | mg/L | 5.0 | 2.5 | 1 | | 10/15/18 02:30 | 16887-00-6 | |
| Sulfate | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/15/18 02:30 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.55** | mg/L | 0.050 | 0.035 | 1 | | 10/04/18 14:43 | 7664-41-7 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 10/04/18 17:59 | 14797-55-8 | |

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## ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

**Sample: MW-8A (21453)** **Lab ID: 35421718002** Collected: 10/03/18 11:00 Received: 10/03/18 17:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.23** | Std. Units | | | 1 | | 10/03/18 11:00 | | |
| Field Temperature | **27.52** | deg C | | | 1 | | 10/03/18 11:00 | | |
| Field Specific Conductance | **1106** | umhos/cm | | | 1 | | 10/03/18 11:00 | | |
| Oxygen, Dissolved | **0.11** | mg/L | | | 1 | | 10/03/18 11:00 | 7782-44-7 | |
| Turbidity | **2.60** | NTU | | | 1 | | 10/03/18 11:00 | | |
| Water Level(NGVD) | **20.70** | feet | | | 1 | | 10/03/18 11:00 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.020 | 0.0062 | 1 | 10/08/18 08:58 | 10/09/18 02:20 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0073 U** | ug/L | 0.0098 | 0.0073 | 1 | 10/08/18 08:58 | 10/09/18 02:20 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **50.0** | ug/L | 10.0 | 0.84 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7440-43-9 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7440-47-3 | |
| Cobalt | **0.96 U** | ug/L | 10.0 | 0.96 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7440-50-8 | |
| Iron | **10100** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7439-92-1 | |
| Manganese | **94.8** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7439-96-5 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7440-22-4 | |
| Sodium | **16.9** | mg/L | 2.0 | 0.27 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7440-23-5 | |
| Vanadium | **4.6 I** | ug/L | 10.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/05/18 01:39 | 10/05/18 21:45 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:56 | 7440-36-0 | |
| Arsenic | **11.4** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:56 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 19:02 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/16/18 12:08 | 10/17/18 14:58 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/12/18 17:30 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:30 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/12/18 17:30 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/12/18 17:30 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/12/18 17:30 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:30 | 78-93-3 | |

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## ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

**Sample: MW-8A (21453)** **Lab ID: 35421718002** Collected: 10/03/18 11:00 Received: 10/03/18 17:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:30 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/12/18 17:30 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/12/18 17:30 | 75-00-3 | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/12/18 17:30 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/12/18 17:30 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/12/18 17:30 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:30 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/12/18 17:30 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/12/18 17:30 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:30 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/12/18 17:30 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/12/18 17:30 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:30 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/12/18 17:30 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/12/18 17:30 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/12/18 17:30 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:30 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/12/18 17:30 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | | 1 | | 10/12/18 17:30 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | | 1 | | 10/12/18 17:30 | 17060-07-0 | |
| Toluene-d8 (S) | 104 | % | 70-130 | | 1 | | 10/12/18 17:30 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **617** | mg/L | 5.0 | 5.0 | 1 | | 10/09/18 14:59 | | |

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## ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

**Sample: MW-8A (21453)** **Lab ID: 35421718002** Collected: 10/03/18 11:00 Received: 10/03/18 17:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **7.2** | mg/L | 5.0 | 2.5 | 1 | | 10/15/18 06:48 | 16887-00-6 | |
| Sulfate | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/15/18 06:48 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **11.1** | mg/L | 0.050 | 0.035 | 1 | | 10/04/18 14:44 | 7664-41-7 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 10/04/18 18:02 | 14797-55-8 | |

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## ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

**Sample: MW-9 (4509)** **Lab ID: 35421718003** Collected: 10/03/18 12:22 Received: 10/03/18 17:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.57** | Std. Units | | | 1 | | 10/03/18 12:22 | | |
| Field Temperature | **30.30** | deg C | | | 1 | | 10/03/18 12:22 | | |
| Field Specific Conductance | **1487** | umhos/cm | | | 1 | | 10/03/18 12:22 | | |
| Oxygen, Dissolved | **0.11** | mg/L | | | 1 | | 10/03/18 12:22 | 7782-44-7 | |
| Turbidity | **3.86** | NTU | | | 1 | | 10/03/18 12:22 | | |
| Water Level(NGVD) | **20.68** | feet | | | 1 | | 10/03/18 12:22 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 10/08/18 08:58 | 10/09/18 02:49 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0073 U** | ug/L | 0.0097 | 0.0073 | 1 | 10/08/18 08:58 | 10/09/18 02:49 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **100** | ug/L | 10.0 | 0.84 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7440-43-9 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7440-47-3 | |
| Cobalt | **0.96 U** | ug/L | 10.0 | 0.96 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7440-50-8 | |
| Iron | **24700** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7439-92-1 | |
| Manganese | **38.0** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7439-96-5 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7440-22-4 | |
| Sodium | **25.8** | mg/L | 2.0 | 0.27 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7440-23-5 | |
| Vanadium | **4.1 I** | ug/L | 10.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/05/18 01:39 | 10/05/18 21:48 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:58 | 7440-36-0 | |
| Arsenic | **12.5** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:58 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 19:03 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/16/18 12:08 | 10/17/18 15:04 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/12/18 17:53 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:53 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/12/18 17:53 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/12/18 17:53 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/12/18 17:53 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:53 | 78-93-3 | |

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(386)672-5668

## ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

**Sample: MW-9 (4509)** **Lab ID: 35421718003** Collected: 10/03/18 12:22 Received: 10/03/18 17:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:53 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/12/18 17:53 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/12/18 17:53 | 75-00-3 | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/12/18 17:53 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/12/18 17:53 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/12/18 17:53 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:53 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/12/18 17:53 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/12/18 17:53 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:53 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/12/18 17:53 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/12/18 17:53 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/12/18 17:53 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/12/18 17:53 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/12/18 17:53 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/12/18 17:53 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/12/18 17:53 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/12/18 17:53 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | | 1 | | 10/12/18 17:53 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 98 | % | 70-130 | | 1 | | 10/12/18 17:53 | 17060-07-0 | |
| Toluene-d8 (S) | 106 | % | 70-130 | | 1 | | 10/12/18 17:53 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **828** | mg/L | 10.0 | 10.0 | 1 | | 10/09/18 14:59 | | |

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(386)672-5668

## ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

**Sample: MW-9 (4509)** **Lab ID: 35421718003** Collected: 10/03/18 12:22 Received: 10/03/18 17:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **22.1** | mg/L | 5.0 | 2.5 | 1 | | 10/15/18 07:11 | 16887-00-6 | |
| Sulfate | **8.3** | mg/L | 5.0 | 2.5 | 1 | | 10/15/18 07:11 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **9.0** | mg/L | 0.050 | 0.035 | 1 | | 10/04/18 14:56 | 7664-41-7 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 10/04/18 18:03 | 14797-55-8 | |

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## ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

**Sample: Trip Blank 8260 #1** **Lab ID: 35421718004** Collected: 10/03/18 09:48 Received: 10/03/18 17:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/14/18 19:44 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/14/18 19:44 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/14/18 19:44 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/14/18 19:44 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/14/18 19:44 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/14/18 19:44 | 78-93-3 | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/14/18 19:44 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/14/18 19:44 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/14/18 19:44 | 75-00-3 | J(L1) |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/14/18 19:44 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/14/18 19:44 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/14/18 19:44 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/14/18 19:44 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/14/18 19:44 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/14/18 19:44 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/14/18 19:44 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/14/18 19:44 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/14/18 19:44 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/14/18 19:44 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/14/18 19:44 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/14/18 19:44 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/14/18 19:44 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 19:44 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/14/18 19:44 | 1330-20-7 | |

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## ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

**Sample: Trip Blank 8260 #1** **Lab ID: 35421718004** Collected: 10/03/18 09:48 Received: 10/03/18 17:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | % | 70-130 | | 1 | | 10/14/18 19:44 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 96 | % | 70-130 | | 1 | | 10/14/18 19:44 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 10/14/18 19:44 | 2037-26-5 | |



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## ANALYTICAL RESULTS

Project: Central City
Pace Project No.: 35421718

**Sample: Trip Blank 8011 #1** **Lab ID: 35421718005** Collected: 10/03/18 09:48 Received: 10/03/18 17:50 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 10/08/18 08:58 | 10/09/18 03:04 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0073 U** | ug/L | 0.0097 | 0.0073 | 1 | 10/08/18 08:58 | 10/09/18 03:04 | 106-93-4 | |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 485692 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2627727 Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 0.10 U | 0.20 | 0.10 | 10/17/18 14:43 | |

LABORATORY CONTROL SAMPLE: 2627728

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 2 | 2.0 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2627729 2627730

| Parameter | Units | 35421718001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 0.10 U | 2 | 2 | 1.9 | 2.0 | 96 | 98 | 75-125 | 3 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 483216 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2614848 Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Barium | ug/L | 0.84 U | 10.0 | 0.84 | 10/05/18 20:48 | |
| Beryllium | ug/L | 1.6 U | 4.0 | 1.6 | 10/05/18 20:48 | |
| Cadmium | ug/L | 0.33 U | 1.0 | 0.33 | 10/05/18 20:48 | |
| Chromium | ug/L | 1.7 U | 5.0 | 1.7 | 10/05/18 20:48 | |
| Cobalt | ug/L | 0.96 U | 10.0 | 0.96 | 10/05/18 20:48 | |
| Copper | ug/L | 2.6 U | 5.0 | 2.6 | 10/05/18 20:48 | |
| Iron | ug/L | 9.2 U | 40.0 | 9.2 | 10/05/18 20:48 | |
| Lead | ug/L | 4.6 U | 10.0 | 4.6 | 10/05/18 20:48 | |
| Manganese | ug/L | 0.42 U | 5.0 | 0.42 | 10/05/18 20:48 | |
| Nickel | ug/L | 2.1 U | 5.0 | 2.1 | 10/05/18 20:48 | |
| Selenium | ug/L | 8.5 U | 15.0 | 8.5 | 10/05/18 20:48 | |
| Silver | ug/L | 1.0 U | 5.0 | 1.0 | 10/05/18 20:48 | |
| Sodium | mg/L | 0.27 U | 2.0 | 0.27 | 10/05/18 20:48 | |
| Vanadium | ug/L | 1.0 U | 10.0 | 1.0 | 10/05/18 20:48 | |
| Zinc | ug/L | 11.0 U | 20.0 | 11.0 | 10/05/18 20:48 | |

LABORATORY CONTROL SAMPLE: 2614849

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Barium | ug/L | 250 | 257 | 103 | 80-120 | |
| Beryllium | ug/L | 25 | 25.7 | 103 | 80-120 | |
| Cadmium | ug/L | 25 | 26.2 | 105 | 80-120 | |
| Chromium | ug/L | 250 | 260 | 104 | 80-120 | |
| Cobalt | ug/L | 250 | 262 | 105 | 80-120 | |
| Copper | ug/L | 250 | 254 | 102 | 80-120 | |
| Iron | ug/L | 2500 | 2600 | 104 | 80-120 | |
| Lead | ug/L | 250 | 259 | 104 | 80-120 | |
| Manganese | ug/L | 250 | 264 | 106 | 80-120 | |
| Nickel | ug/L | 250 | 260 | 104 | 80-120 | |
| Selenium | ug/L | 250 | 265 | 106 | 80-120 | |
| Silver | ug/L | 25 | 26.1 | 104 | 80-120 | |
| Sodium | mg/L | 12.5 | 12.6 | 101 | 80-120 | |
| Vanadium | ug/L | 250 | 259 | 103 | 80-120 | |
| Zinc | ug/L | 1250 | 1310 | 105 | 80-120 | |

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(386)672-5668

## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614851 2614852

| Parameter | Units | 35422069002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | ug/L | 95.6 | 250 | 250 | 348 | 351 | 101 | 102 | 75-125 | 1 | 20 | |
| Beryllium | ug/L | 1.6 U | 25 | 25 | 21.0 | 23.5 | 84 | 94 | 75-125 | 11 | 20 | |
| Cadmium | ug/L | 0.33 U | 25 | 25 | 25.0 | 24.9 | 99 | 99 | 75-125 | 0 | 20 | |
| Chromium | ug/L | 1.8 I | 250 | 250 | 256 | 245 | 102 | 97 | 75-125 | 4 | 20 | |
| Cobalt | ug/L | 1.8 I | 250 | 250 | 261 | 260 | 104 | 103 | 75-125 | 0 | 20 | |
| Copper | ug/L | 2.6 U | 250 | 250 | 259 | 261 | 104 | 105 | 75-125 | 1 | 20 | |
| Iron | ug/L | 88400 | 2500 | 2500 | 87100 | 85300 | -51 | -123 | 75-125 | 2 | 20 | J(M1), L |
| Lead | ug/L | 4.6 U | 250 | 250 | 249 | 257 | 99 | 103 | 75-125 | 3 | 20 | |
| Manganese | ug/L | 10.5 | 250 | 250 | 267 | 245 | 103 | 94 | 75-125 | 9 | 20 | |
| Nickel | ug/L | 2.7 I | 250 | 250 | 255 | 260 | 101 | 103 | 75-125 | 2 | 20 | |
| Selenium | ug/L | 8.5 U | 250 | 250 | 254 | 255 | 102 | 102 | 75-125 | 0 | 20 | |
| Silver | ug/L | 1.0 U | 25 | 25 | 25.5 | 24.7 | 102 | 99 | 75-125 | 3 | 20 | |
| Sodium | mg/L | 60.8 | 12.5 | 12.5 | 73.5 | 76.3 | 102 | 123 | 75-125 | 4 | 20 | |
| Vanadium | ug/L | 5.8 I | 250 | 250 | 264 | 252 | 103 | 98 | 75-125 | 5 | 20 | |
| Zinc | ug/L | 11.0 U | 1250 | 1250 | 1240 | 1320 | 98 | 105 | 75-125 | 6 | 20 | |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 483215 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2614821 Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 0.50 U | 1.0 | 0.50 | 10/06/18 19:13 | |
| Arsenic | ug/L | 0.50 U | 1.0 | 0.50 | 10/06/18 19:13 | |
| Thallium | ug/L | 0.50 U | 1.0 | 0.50 | 10/05/18 18:21 | |

LABORATORY CONTROL SAMPLE: 2614822

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 50 | 48.5 | 97 | 80-120 | |
| Arsenic | ug/L | 50 | 48.0 | 96 | 80-120 | |
| Thallium | ug/L | 50 | 49.1 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614823 2614824

| Parameter | Units | 35421363001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ug/L | 0.50 U | 50 | 50 | 50.8 | 54.0 | 101 | 108 | 75-125 | 6 | 20 | |
| Arsenic | ug/L | 9.6 | 50 | 50 | 60.1 | 64.3 | 101 | 109 | 75-125 | 7 | 20 | |
| Thallium | ug/L | 0.50 U | 50 | 50 | 51.5 | 51.3 | 103 | 103 | 75-125 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 485124 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2625095 Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 0.50 | 0.12 | 10/12/18 11:11 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 2.0 | 0.59 | 10/12/18 11:11 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 10.0 | 5.0 | 10/12/18 11:11 | |
| 2-Hexanone | ug/L | 5.0 U | 10.0 | 5.0 | 10/12/18 11:11 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 10.0 | 5.0 | 10/12/18 11:11 | |
| Acetone | ug/L | 10.0 U | 20.0 | 10.0 | 10/12/18 11:11 | |
| Acrylonitrile | ug/L | 5.0 U | 10.0 | 5.0 | 10/12/18 11:11 | |
| Benzene | ug/L | 0.10 U | 1.0 | 0.10 | 10/12/18 11:11 | |
| Bromochloromethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| Bromodichloromethane | ug/L | 0.27 U | 0.60 | 0.27 | 10/12/18 11:11 | |
| Bromoform | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| Bromomethane | ug/L | 0.50 U | 5.0 | 0.50 | 10/12/18 11:11 | |
| Carbon disulfide | ug/L | 5.0 U | 10.0 | 5.0 | 10/12/18 11:11 | |
| Carbon tetrachloride | ug/L | 0.50 U | 3.0 | 0.50 | 10/12/18 11:11 | |
| Chlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| Chloroethane | ug/L | 0.50 U | 10.0 | 0.50 | 10/12/18 11:11 | |
| Chloroform | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| Chloromethane | ug/L | 0.62 U | 1.0 | 0.62 | 10/12/18 11:11 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 0.50 | 0.25 | 10/12/18 11:11 | |
| Dibromochloromethane | ug/L | 0.26 U | 2.0 | 0.26 | 10/12/18 11:11 | |
| Dibromomethane | ug/L | 0.50 U | 2.0 | 0.50 | 10/12/18 11:11 | |
| Ethylbenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| Iodomethane | ug/L | 0.50 U | 10.0 | 0.50 | 10/12/18 11:11 | |
| Methylene Chloride | ug/L | 2.5 U | 5.0 | 2.5 | 10/12/18 11:11 | |
| Styrene | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| Tetrachloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| Toluene | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 0.50 | 0.25 | 10/12/18 11:11 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 10.0 | 5.0 | 10/12/18 11:11 | |
| Trichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

METHOD BLANK: 2625095 Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| Vinyl acetate | ug/L | 1.0 U | 10.0 | 1.0 | 10/12/18 11:11 | |
| Vinyl chloride | ug/L | 0.50 U | 1.0 | 0.50 | 10/12/18 11:11 | |
| Xylene (Total) | ug/L | 1.5 U | 3.0 | 1.5 | 10/12/18 11:11 | |
| 1,2-Dichloroethane-d4 (S) | % | 93 | 70-130 | | 10/12/18 11:11 | |
| 4-Bromofluorobenzene (S) | % | 101 | 70-130 | | 10/12/18 11:11 | |
| Toluene-d8 (S) | % | 102 | 70-130 | | 10/12/18 11:11 | |

LABORATORY CONTROL SAMPLE: 2625096

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 17.4 | 87 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 17.2 | 86 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 19.7 | 99 | 68-125 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 19.6 | 98 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 20 | 17.6 | 88 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 20 | 18.8 | 94 | 66-133 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 19.6 | 98 | 62-127 | |
| 1,2-Dichlorobenzene | ug/L | 20 | 19.2 | 96 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 20 | 17.3 | 86 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 20 | 18.7 | 93 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 18.9 | 95 | 70-130 | |
| 2-Butanone (MEK) | ug/L | 40 | 32.1 | 80 | 47-143 | |
| 2-Hexanone | ug/L | 40 | 38.1 | 95 | 48-145 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 40 | 36.3 | 91 | 57-132 | |
| Acetone | ug/L | 40 | 31.0 | 78 | 46-148 | |
| Acrylonitrile | ug/L | 200 | 220 | 110 | 60-143 | |
| Benzene | ug/L | 20 | 18.6 | 93 | 70-130 | |
| Bromochloromethane | ug/L | 20 | 18.5 | 93 | 70-130 | |
| Bromodichloromethane | ug/L | 20 | 17.0 | 85 | 70-130 | |
| Bromoform | ug/L | 20 | 15.6 | 78 | 49-126 | |
| Bromomethane | ug/L | 20 | 14.7 | 74 | 10-165 | |
| Carbon disulfide | ug/L | 20 | 15.5 | 78 | 60-141 | |
| Carbon tetrachloride | ug/L | 20 | 16.2 | 81 | 63-126 | |
| Chlorobenzene | ug/L | 20 | 19.7 | 98 | 70-130 | |
| Chloroethane | ug/L | 20 | 25.6 | 128 | 71-142 | |
| Chloroform | ug/L | 20 | 17.4 | 87 | 70-130 | |
| Chloromethane | ug/L | 20 | 11.1 | 56 | 40-140 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 17.7 | 88 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 17.6 | 88 | 70-130 | |
| Dibromochloromethane | ug/L | 20 | 15.6 | 78 | 62-118 | |
| Dibromomethane | ug/L | 20 | 18.9 | 95 | 70-130 | |
| Ethylbenzene | ug/L | 20 | 18.9 | 94 | 70-130 | |
| Iodomethane | ug/L | 40 | 13.3 | 33 | 10-164 | |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

LABORATORY CONTROL SAMPLE: 2625096

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Methylene Chloride | ug/L | 20 | 18.1 | 90 | 65-136 | |
| Styrene | ug/L | 20 | 20.1 | 101 | 70-130 | |
| Tetrachloroethene | ug/L | 20 | 18.8 | 94 | 64-134 | |
| Toluene | ug/L | 20 | 20.0 | 100 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 20 | 17.3 | 87 | 68-127 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 16.8 | 84 | 65-121 | |
| trans-1,4-Dichloro-2-butene | ug/L | 20 | 16.9 | 84 | 42-129 | |
| Trichloroethene | ug/L | 20 | 19.1 | 96 | 70-130 | |
| Trichlorofluoromethane | ug/L | 20 | 16.5 | 82 | 65-135 | |
| Vinyl acetate | ug/L | 20 | 18.6 | 93 | 60-144 | |
| Vinyl chloride | ug/L | 20 | 17.3 | 86 | 68-131 | |
| Xylene (Total) | ug/L | 60 | 58.5 | 98 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 90 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 103 | 70-130 | |
| Toluene-d8 (S) | % | | | 101 | 70-130 | |

MATRIX SPIKE SAMPLE: 2626721

| Parameter | Units | 35422753008 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 20 | 15.2 | 76 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 20 | 16.2 | 81 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 20 | 16.5 | 83 | 68-125 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 20 | 17.9 | 89 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 20 | 16.7 | 84 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 20 | 17.9 | 90 | 66-133 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 20 | 16.1 | 81 | 62-127 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 20 | 16.7 | 84 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 20 | 15.6 | 77 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 20 | 16.0 | 80 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 20 | 17.4 | 87 | 70-130 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 40 | 23.0 | 57 | 47-143 | |
| 2-Hexanone | ug/L | 5.0 U | 40 | 27.2 | 68 | 48-145 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 40 | 25.3 | 63 | 57-132 | |
| Acetone | ug/L | 10.0 U | 40 | 23.6 | 59 | 46-148 | |
| Acrylonitrile | ug/L | 5.0 U | 200 | 128 | 64 | 60-143 | |
| Benzene | ug/L | 0.10 U | 20 | 17.1 | 86 | 70-130 | |
| Bromochloromethane | ug/L | 0.50 U | 20 | 17.3 | 86 | 70-130 | |
| Bromodichloromethane | ug/L | 0.27 U | 20 | 14.6 | 73 | 70-130 | |
| Bromoform | ug/L | 0.50 U | 20 | 13.8 | 69 | 49-126 | |
| Bromomethane | ug/L | 0.50 U | 20 | 19.4 | 97 | 10-165 | |
| Carbon disulfide | ug/L | 5.0 U | 20 | 12.9 | 64 | 60-141 | |
| Carbon tetrachloride | ug/L | 0.50 U | 20 | 16.1 | 80 | 63-126 | |
| Chlorobenzene | ug/L | 0.50 U | 20 | 18.0 | 90 | 70-130 | |
| Chloroethane | ug/L | 0.50 U | 20 | 25.8 | 129 | 71-142 | |
| Chloroform | ug/L | 0.50 U | 20 | 15.5 | 77 | 70-130 | |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

MATRIX SPIKE SAMPLE: 2626721

| Parameter | Units | 35422753008 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chloromethane | ug/L | 0.62 U | 20 | 10.6 | 53 | 40-140 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 20 | 15.6 | 78 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 20 | 13.4 | 67 | 70-130 | J(M1) |
| Dibromochloromethane | ug/L | 0.26 U | 20 | 13.3 | 67 | 62-118 | |
| Dibromomethane | ug/L | 0.50 U | 20 | 17.3 | 87 | 70-130 | |
| Ethylbenzene | ug/L | 0.50 U | 20 | 17.6 | 88 | 70-130 | |
| Iodomethane | ug/L | 0.50 U | 40 | 2.8 I | 7 | 10-164 | J(M1) |
| Methylene Chloride | ug/L | 2.5 U | 20 | 16.4 | 82 | 65-136 | |
| Styrene | ug/L | 0.50 U | 20 | 17.7 | 88 | 70-130 | |
| Tetrachloroethene | ug/L | 0.50 U | 20 | 17.8 | 89 | 64-134 | |
| Toluene | ug/L | 0.50 U | 20 | 18.4 | 91 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 20 | 16.0 | 80 | 68-127 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 20 | 14.1 | 70 | 65-121 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 20 | 12.9 | 65 | 42-129 | |
| Trichloroethene | ug/L | 0.50 U | 20 | 17.8 | 89 | 70-130 | |
| Trichlorofluoromethane | ug/L | 0.50 U | 20 | 17.9 | 90 | 65-135 | |
| Vinyl acetate | ug/L | 1.0 U | 20 | 12.8 | 64 | 60-144 | |
| Vinyl chloride | ug/L | 0.50 U | 20 | 17.5 | 88 | 68-131 | |
| Xylene (Total) | ug/L | 1.5 U | 60 | 51.3 | 85 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 92 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 105 | 70-130 | |
| Toluene-d8 (S) | % | | | | 99 | 70-130 | |

SAMPLE DUPLICATE: 2626720

| Parameter | Units | 35422753007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 0.12 U | | 40 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 0.59 U | | 40 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 5.0 U | | 40 | |
| 2-Hexanone | ug/L | 5.0 U | 5.0 U | | 40 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 5.0 U | | 40 | |
| Acetone | ug/L | 10.0 U | 10.0 U | | 40 | |
| Acrylonitrile | ug/L | 5.0 U | 5.0 U | | 40 | |
| Benzene | ug/L | 0.10 U | 0.10 U | | 40 | |
| Bromochloromethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Bromodichloromethane | ug/L | 0.27 U | 0.27 U | | 40 | |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

SAMPLE DUPLICATE: 2626720

| Parameter | Units | 35422753007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Bromoform | ug/L | 0.50 U | 0.50 U | | 40 | |
| Bromomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Carbon disulfide | ug/L | 5.0 U | 5.0 U | | 40 | |
| Carbon tetrachloride | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloroform | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloromethane | ug/L | 0.62 U | 0.62 U | | 40 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 0.25 U | | 40 | |
| Dibromochloromethane | ug/L | 0.26 U | 0.26 U | | 40 | |
| Dibromomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Ethylbenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Iodomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Methylene Chloride | ug/L | 2.5 U | 2.5 U | | 40 | |
| Styrene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Tetrachloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Toluene | ug/L | 0.50 U | 0.50 U | | 40 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 0.25 U | | 40 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 5.0 U | | 40 | |
| Trichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Trichlorofluoromethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Vinyl acetate | ug/L | 1.0 U | 1.0 U | | 40 | |
| Vinyl chloride | ug/L | 0.50 U | 0.50 U | | 40 | |
| Xylene (Total) | ug/L | 1.5 U | 1.5 U | | 40 | |
| 1,2-Dichloroethane-d4 (S) | % | 96 | 94 | 2 | 40 | |
| 4-Bromofluorobenzene (S) | % | 98 | 100 | 1 | 40 | |
| Toluene-d8 (S) | % | 105 | 103 | 2 | 40 | |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 485456
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 35421718004

METHOD BLANK: 2626688
Matrix: Water
Associated Lab Samples: 35421718004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 0.50 | 0.12 | 10/14/18 19:20 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 2.0 | 0.59 | 10/14/18 19:20 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 10.0 | 5.0 | 10/14/18 19:20 | |
| 2-Hexanone | ug/L | 5.0 U | 10.0 | 5.0 | 10/14/18 19:20 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 10.0 | 5.0 | 10/14/18 19:20 | |
| Acetone | ug/L | 10.0 U | 20.0 | 10.0 | 10/14/18 19:20 | |
| Acrylonitrile | ug/L | 5.0 U | 10.0 | 5.0 | 10/14/18 19:20 | |
| Benzene | ug/L | 0.10 U | 1.0 | 0.10 | 10/14/18 19:20 | |
| Bromochloromethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Bromodichloromethane | ug/L | 0.27 U | 0.60 | 0.27 | 10/14/18 19:20 | |
| Bromoform | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Bromomethane | ug/L | 0.50 U | 5.0 | 0.50 | 10/14/18 19:20 | |
| Carbon disulfide | ug/L | 5.0 U | 10.0 | 5.0 | 10/14/18 19:20 | |
| Carbon tetrachloride | ug/L | 0.50 U | 3.0 | 0.50 | 10/14/18 19:20 | |
| Chlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Chloroethane | ug/L | 0.50 U | 10.0 | 0.50 | 10/14/18 19:20 | |
| Chloroform | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Chloromethane | ug/L | 0.62 U | 1.0 | 0.62 | 10/14/18 19:20 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 0.50 | 0.25 | 10/14/18 19:20 | |
| Dibromochloromethane | ug/L | 0.26 U | 2.0 | 0.26 | 10/14/18 19:20 | |
| Dibromomethane | ug/L | 0.50 U | 2.0 | 0.50 | 10/14/18 19:20 | |
| Ethylbenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Iodomethane | ug/L | 0.50 U | 10.0 | 0.50 | 10/14/18 19:20 | |
| Methylene Chloride | ug/L | 2.5 U | 5.0 | 2.5 | 10/14/18 19:20 | |
| Styrene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Tetrachloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Toluene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 0.50 | 0.25 | 10/14/18 19:20 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 10.0 | 5.0 | 10/14/18 19:20 | |
| Trichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

METHOD BLANK: 2626688 Matrix: Water
Associated Lab Samples: 35421718004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Vinyl acetate | ug/L | 1.0 U | 10.0 | 1.0 | 10/14/18 19:20 | |
| Vinyl chloride | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Xylene (Total) | ug/L | 1.5 U | 3.0 | 1.5 | 10/14/18 19:20 | |
| 1,2-Dichloroethane-d4 (S) | % | 98 | 70-130 | | 10/14/18 19:20 | |
| 4-Bromofluorobenzene (S) | % | 103 | 70-130 | | 10/14/18 19:20 | |
| Toluene-d8 (S) | % | 105 | 70-130 | | 10/14/18 19:20 | |

LABORATORY CONTROL SAMPLE: 2626689

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 18.2 | 91 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 17.5 | 88 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 19.3 | 97 | 68-125 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 19.9 | 100 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 20 | 18.2 | 91 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 20 | 20.2 | 101 | 66-133 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 19.5 | 98 | 62-127 | |
| 1,2-Dichlorobenzene | ug/L | 20 | 19.0 | 95 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 20 | 17.6 | 88 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 20 | 18.5 | 92 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 19.1 | 95 | 70-130 | |
| 2-Butanone (MEK) | ug/L | 40 | 34.2 | 86 | 47-143 | |
| 2-Hexanone | ug/L | 40 | 39.8 | 99 | 48-145 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 40 | 37.3 | 93 | 57-132 | |
| Acetone | ug/L | 40 | 35.5 | 89 | 46-148 | |
| Acrylonitrile | ug/L | 200 | 206 | 103 | 60-143 | |
| Benzene | ug/L | 20 | 18.8 | 94 | 70-130 | |
| Bromochloromethane | ug/L | 20 | 19.5 | 97 | 70-130 | |
| Bromodichloromethane | ug/L | 20 | 18.1 | 90 | 70-130 | |
| Bromoform | ug/L | 20 | 18.0 | 90 | 49-126 | |
| Bromomethane | ug/L | 20 | 19.9 | 100 | 10-165 | |
| Carbon disulfide | ug/L | 20 | 16.6 | 83 | 60-141 | |
| Carbon tetrachloride | ug/L | 20 | 18.4 | 92 | 63-126 | |
| Chlorobenzene | ug/L | 20 | 19.9 | 99 | 70-130 | |
| Chloroethane | ug/L | 20 | 31.1 | 156 | 71-142 | J(L1) |
| Chloroform | ug/L | 20 | 17.3 | 86 | 70-130 | |
| Chloromethane | ug/L | 20 | 14.7 | 73 | 40-140 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 17.0 | 85 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 17.2 | 86 | 70-130 | |
| Dibromochloromethane | ug/L | 20 | 16.2 | 81 | 62-118 | |
| Dibromomethane | ug/L | 20 | 19.6 | 98 | 70-130 | |
| Ethylbenzene | ug/L | 20 | 19.0 | 95 | 70-130 | |
| Iodomethane | ug/L | 40 | 9.6 I | 24 | 10-164 | |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

LABORATORY CONTROL SAMPLE: 2626689

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Methylene Chloride | ug/L | 20 | 19.0 | 95 | 65-136 | |
| Styrene | ug/L | 20 | 19.5 | 97 | 70-130 | |
| Tetrachloroethene | ug/L | 20 | 20.1 | 100 | 64-134 | |
| Toluene | ug/L | 20 | 19.5 | 98 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 20 | 17.1 | 86 | 68-127 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 17.3 | 87 | 65-121 | |
| trans-1,4-Dichloro-2-butene | ug/L | 20 | 17.0 | 85 | 42-129 | |
| Trichloroethene | ug/L | 20 | 19.6 | 98 | 70-130 | |
| Trichlorofluoromethane | ug/L | 20 | 21.3 | 106 | 65-135 | |
| Vinyl acetate | ug/L | 20 | 19.5 | 97 | 60-144 | |
| Vinyl chloride | ug/L | 20 | 22.2 | 111 | 68-131 | |
| Xylene (Total) | ug/L | 60 | 56.1 | 93 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 92 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 103 | 70-130 | |
| Toluene-d8 (S) | % | | | 100 | 70-130 | |

MATRIX SPIKE SAMPLE: 2627261

| Parameter | Units | 35423873003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 20 | 10.0 | 50 | 70-130 | J(M1) |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 20 | 11.7 | 59 | 70-130 | J(M1) |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 20 | 11.6 | 58 | 68-125 | J(M1) |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 20 | 12.1 | 60 | 70-130 | J(M1) |
| 1,1-Dichloroethane | ug/L | 0.50 U | 20 | 12.3 | 62 | 70-130 | J(M1) |
| 1,1-Dichloroethene | ug/L | 0.50 U | 20 | 14.0 | 70 | 66-133 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 20 | 10.8 | 54 | 62-127 | J(M1) |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 20 | 11.9 | 60 | 70-130 | J(M1) |
| 1,2-Dichloroethane | ug/L | 0.50 U | 20 | 11.6 | 58 | 70-130 | J(M1) |
| 1,2-Dichloropropane | ug/L | 0.50 U | 20 | 11.7 | 59 | 70-130 | J(M1) |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 20 | 12.0 | 60 | 70-130 | J(M1) |
| 2-Butanone (MEK) | ug/L | 5.0 U | 40 | 24.5 | 61 | 47-143 | |
| 2-Hexanone | ug/L | 5.0 U | 40 | 28.2 | 71 | 48-145 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 40 | 26.0 | 65 | 57-132 | |
| Acetone | ug/L | 10.0 U | 40 | 27.2 | 68 | 46-148 | |
| Acrylonitrile | ug/L | 5.0 U | 200 | 152 | 76 | 60-143 | |
| Benzene | ug/L | 0.55 I | 20 | 12.7 | 61 | 70-130 | J(M1) |
| Bromochloromethane | ug/L | 0.50 U | 20 | 12.9 | 65 | 70-130 | J(M1) |
| Bromodichloromethane | ug/L | 0.71 | 20 | 11.9 | 56 | 70-130 | J(M1) |
| Bromoform | ug/L | 0.50 U | 20 | 10.1 | 50 | 49-126 | |
| Bromomethane | ug/L | 0.50 U | 20 | 17.6 | 88 | 10-165 | |
| Carbon disulfide | ug/L | 5.0 U | 20 | 14.4 | 72 | 60-141 | |
| Carbon tetrachloride | ug/L | 0.50 U | 20 | 11.9 | 60 | 63-126 | J(M1) |
| Chlorobenzene | ug/L | 0.50 U | 20 | 12.4 | 62 | 70-130 | J(M1) |
| Chloroethane | ug/L | 0.50 U | 20 | 15.9 | 80 | 71-142 | |
| Chloroform | ug/L | 4.6 | 20 | 16.1 | 57 | 70-130 | J(M1) |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

MATRIX SPIKE SAMPLE: 2627261

| Parameter | Units | 35423873003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chloromethane | ug/L | 0.62 U | 20 | 8.9 | 43 | 40-140 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 20 | 12.2 | 61 | 70-130 | J(M1) |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 20 | 9.9 | 49 | 70-130 | J(M1) |
| Dibromochloromethane | ug/L | 0.26 U | 20 | 9.6 | 48 | 62-118 | J(M1) |
| Dibromomethane | ug/L | 0.50 U | 20 | 11.7 | 59 | 70-130 | J(M1) |
| Ethylbenzene | ug/L | 6.8 | 20 | 18.9 | 61 | 70-130 | J(M1) |
| Iodomethane | ug/L | 0.50 U | 40 | 3.0 I | 8 | 10-164 | J(M1) |
| Methylene Chloride | ug/L | 2.5 U | 20 | 11.2 | 56 | 65-136 | J(M1) |
| Styrene | ug/L | 0.50 U | 20 | 12.0 | 60 | 70-130 | J(M1) |
| Tetrachloroethene | ug/L | 0.50 U | 20 | 12.3 | 62 | 64-134 | J(M1) |
| Toluene | ug/L | 0.50 U | 20 | 12.3 | 61 | 70-130 | J(M1) |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 20 | 12.0 | 60 | 68-127 | J(M1) |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 20 | 9.6 | 48 | 65-121 | J(M1) |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 20 | 11.4 | 57 | 42-129 | |
| Trichloroethene | ug/L | 0.50 U | 20 | 20.4 | 102 | 70-130 | |
| Trichlorofluoromethane | ug/L | 0.50 U | 20 | 12.8 | 64 | 65-135 | J(M1) |
| Vinyl acetate | ug/L | 1.0 U | 20 | 14.1 | 70 | 60-144 | |
| Vinyl chloride | ug/L | 0.50 U | 20 | 13.8 | 69 | 68-131 | |
| Xylene (Total) | ug/L | 1.5 U | 60 | 35.5 | 59 | 70-130 | MS |
| 1,2-Dichloroethane-d4 (S) | % | | | | 93 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 106 | 70-130 | |
| Toluene-d8 (S) | % | | | | 98 | 70-130 | |

SAMPLE DUPLICATE: 2627260

| Parameter | Units | 35423873002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 0.12 U | | 40 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 0.59 U | | 40 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 5.0 U | | 40 | |
| 2-Hexanone | ug/L | 5.0 U | 5.0 U | | 40 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 5.0 U | | 40 | |
| Acetone | ug/L | 10.0 U | 10.0 U | | 40 | |
| Acrylonitrile | ug/L | 5.0 U | 5.0 U | | 40 | |
| Benzene | ug/L | 25.7 | 24.5 | 5 | 40 | |
| Bromochloromethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Bromodichloromethane | ug/L | 0.27 U | 0.27 U | | 40 | |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

SAMPLE DUPLICATE: 2627260

| Parameter | Units | 35423873002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Bromoform | ug/L | 0.50 U | 0.50 U | | 40 | |
| Bromomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Carbon disulfide | ug/L | 5.0 U | 5.0 U | | 40 | |
| Carbon tetrachloride | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloroform | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloromethane | ug/L | 0.62 U | 0.62 U | | 40 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 0.25 U | | 40 | |
| Dibromochloromethane | ug/L | 0.26 U | 0.26 U | | 40 | |
| Dibromomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Ethylbenzene | ug/L | 67.6 | 65.2 | 4 | 40 | |
| Iodomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Methylene Chloride | ug/L | 2.5 U | 2.5 U | | 40 | |
| Styrene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Tetrachloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Toluene | ug/L | 13.3 | 13.5 | 2 | 40 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 0.25 U | | 40 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 5.0 U | | 40 | |
| Trichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Trichlorofluoromethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Vinyl acetate | ug/L | 1.0 U | 1.0 U | | 40 | |
| Vinyl chloride | ug/L | 0.50 U | 0.50 U | | 40 | |
| Xylene (Total) | ug/L | 257 | 258 | 0 | 40 | |
| 1,2-Dichloroethane-d4 (S) | % | 94 | 91 | 4 | 40 | |
| 4-Bromofluorobenzene (S) | % | 108 | 109 | 1 | 40 | |
| Toluene-d8 (S) | % | 107 | 103 | 4 | 40 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 483508 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35421718001, 35421718002, 35421718003, 35421718005

METHOD BLANK: 2616370 Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003, 35421718005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | 0.0064 U | 0.020 | 0.0064 | 10/09/18 01:05 | |
| 1,2-Dibromoethane (EDB) | ug/L | 0.0075 U | 0.010 | 0.0075 | 10/09/18 01:05 | |

LABORATORY CONTROL SAMPLE: 2616371

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | .25 | 0.25 | 101 | 60-140 | |
| 1,2-Dibromoethane (EDB) | ug/L | .25 | 0.25 | 100 | 60-140 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2617124 2617125

| Parameter | Units | 35421718001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | 0.0063 U | .44 | .44 | 0.52 | 0.49 | 119 | 111 | 60-140 | 7 | 40 | |
| 1,2-Dibromoethane (EDB) | ug/L | 0.0074 U | .44 | .44 | 0.49 | 0.41 | 113 | 95 | 60-140 | 18 | 40 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 483992 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2618765 Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 5.0 U | 5.0 | 5.0 | 10/09/18 14:51 | |

LABORATORY CONTROL SAMPLE: 2618766

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 300 | 287 | 96 | 90-110 | |

SAMPLE DUPLICATE: 2618767

| Parameter | Units | 35421600001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 1170 | 1160 | 1 | 5 | |

SAMPLE DUPLICATE: 2618768

| Parameter | Units | 35422232004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 283 | 285 | 1 | 5 | |

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## REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 485423 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2626594 Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 2.5 U | 5.0 | 2.5 | 10/15/18 00:33 | |
| Sulfate | mg/L | 2.5 U | 5.0 | 2.5 | 10/15/18 00:33 | |

LABORATORY CONTROL SAMPLE: 2626595

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 50 | 49.0 | 98 | 90-110 | |
| Sulfate | mg/L | 50 | 48.4 | 97 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626596 2626597

| Parameter | Units | 7595686009 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 31.9 | 50 | 50 | 85.4 | 85.4 | 107 | 107 | 90-110 | 0 | 20 | |
| Sulfate | mg/L | 42.1 | 50 | 50 | 96.6 | 96.5 | 109 | 109 | 90-110 | 0 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 482884 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2613192 Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.035 U | 0.050 | 0.035 | 10/04/18 13:56 | |

LABORATORY CONTROL SAMPLE: 2613193

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 1 | 1.0 | 99 | 90-110 | |

MATRIX SPIKE SAMPLE: 2613195

| Parameter | Units | 35421730014 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 5.7 | 1 | 6.7 | 93 | 90-110 | |

SAMPLE DUPLICATE: 2613194

| Parameter | Units | 35421730014 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 5.7 | 5.7 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: Central City
Pace Project No.: 35421718

QC Batch: 483121 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35421718001, 35421718002, 35421718003

METHOD BLANK: 2614071 Matrix: Water
Associated Lab Samples: 35421718001, 35421718002, 35421718003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.025 U | 0.050 | 0.025 | 10/04/18 16:44 | |

SAMPLE DUPLICATE: 2614073

| Parameter | Units | 35421631001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 7.1 | 8.5 | 17 | 20 | |

SAMPLE DUPLICATE: 2614075

| Parameter | Units | 35421692001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.45 | 0.44 | 3 | 20 | |

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

# QUALIFIERS

Project: Central City
Pace Project No.: 35421718

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-O | Pace Analytical Services - Ormond Beach |
| PASI-Tp | Pace Analytical Services - Tampa |

## ANALYTE QUALIFIERS

| | |
|---|---|
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| U | Compound was analyzed for but not detected. |
| J(L1) | Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high. |
| J(M1) | Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| L | Off-scale high. Actual value is known to be greater than value given. |
| MS | Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result. |



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(386)672-5668

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central City
Pace Project No.: 35421718

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **35421718001** | **MW-1R (20585)** | | | | |
| **35421718002** | **MW-8A (21453)** | | | | |
| **35421718003** | **MW-9 (4509)** | | | | |
| **35421718001** | **MW-1R (20585)** | EPA 8011 | 483508 | EPA 8011 | 483847 |
| **35421718002** | **MW-8A (21453)** | EPA 8011 | 483508 | EPA 8011 | 483847 |
| **35421718003** | **MW-9 (4509)** | EPA 8011 | 483508 | EPA 8011 | 483847 |
| **35421718005** | **Trip Blank 8011 #1** | EPA 8011 | 483508 | EPA 8011 | 483847 |
| **35421718001** | **MW-1R (20585)** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421718002** | **MW-8A (21453)** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421718003** | **MW-9 (4509)** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421718001** | **MW-1R (20585)** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421718002** | **MW-8A (21453)** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421718003** | **MW-9 (4509)** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421718001** | **MW-1R (20585)** | EPA 7470 | 485692 | EPA 7470 | 485966 |
| **35421718002** | **MW-8A (21453)** | EPA 7470 | 485692 | EPA 7470 | 485966 |
| **35421718003** | **MW-9 (4509)** | EPA 7470 | 485692 | EPA 7470 | 485966 |
| **35421718001** | **MW-1R (20585)** | EPA 8260 | 485124 | | |
| **35421718002** | **MW-8A (21453)** | EPA 8260 | 485124 | | |
| **35421718003** | **MW-9 (4509)** | EPA 8260 | 485124 | | |
| **35421718004** | **Trip Blank 8260 #1** | EPA 8260 | 485456 | | |
| **35421718001** | **MW-1R (20585)** | SM 2540C | 483992 | | |
| **35421718002** | **MW-8A (21453)** | SM 2540C | 483992 | | |
| **35421718003** | **MW-9 (4509)** | SM 2540C | 483992 | | |
| **35421718001** | **MW-1R (20585)** | EPA 300.0 | 485423 | | |
| **35421718002** | **MW-8A (21453)** | EPA 300.0 | 485423 | | |
| **35421718003** | **MW-9 (4509)** | EPA 300.0 | 485423 | | |
| **35421718001** | **MW-1R (20585)** | EPA 350.1 | 482884 | | |
| **35421718002** | **MW-8A (21453)** | EPA 350.1 | 482884 | | |
| **35421718003** | **MW-9 (4509)** | EPA 350.1 | 482884 | | |
| **35421718001** | **MW-1R (20585)** | EPA 353.2 | 483121 | | |
| **35421718002** | **MW-8A (21453)** | EPA 353.2 | 483121 | | |
| **35421718003** | **MW-9 (4509)** | EPA 353.2 | 483121 | | |



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WO# : 35421718

35421718

Pace Analytical

# CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mus

Page : 1 Of 1

**Section A**
**Required Client Information:**

| | |
|---|---|
| Company: | Sarasota County |
| Address: | 1255 T. Mabry Carlton Parkway |
| | Venice, FL 34292 |
| Email: | |
| Phone: 941-650-9834 | Fax: |
| Requested Due Date: | |

**Section B**
**Required Project Information:**

| | |
|---|---|
| Report To: | Mr. Cesar Rodriguez |
| Copy To: | |
| Purchase Order #: | 180736 |
| Project Name: | Central Cty MW wells Appdx 1 |
| Project #: | |

**Section C**
**Invoice Information:**

| | |
|---|---|
| Attention: | |
| Company Name: | |
| Address: | |
| Pace Quote: | |
| Pace Project Manager: | martha.montero@pacelabs.com, |
| Pace Profile #: | 833 #1 |

**Regulatory Agency**

**State / Location**
FL

**Requested Analysis Filtered (Y/N)**

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analyses Test Y/N | VOC by 8260 | EDB and DBCP EPA 8011 | NH3 | metals by 6010/6020/7470 Fe,Hg,Na,Mn | TDS NO3 Cl SO4 | Residual Chlorine (Y/N) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS | | | | | | | | | | | | | | | | | | Unpreserved | H2SO4 | HNO3 | Unpreserved | | | | |
| 1 | MW-1R (20585) | WT | | 10/3/18 | 0948 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | | |
| 2 | MW-8A (21453) | WT | | 10/3/18 | 1100 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | | |
| 3 | MW-9 (4509) | WT | | 10/3/18 | 1222 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | | |
| 4 | ~~MW-10R (4510)~~ CE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | | |
| 5 | ~~MW-15 (23031)~~ CE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | | |
| 6 | ~~MW-16 (23032)~~ CE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | | |
| 7 | ~~MW-17 (23033)~~ CE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | | |
| 8 | ~~MW-18R (29095)~~ CE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | | |
| 9 | ~~MW-19A(27140)~~ CE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | | |
| 10 | ~~MW-20A (27141)~~ CE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | | |
| 11 | ~~field blank~~ CE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | | |
| 12 | ~~dup #1~~ CE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | | |

Please use ADAPT, analyze all compounds on App 1

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Central county Monitoring wells Adapt Bottles Rcvd 9/20 JK | Alison J Eggleston | 10/3/18 | 1345 | Pace | 10-3-18 | 1445 | T23 | | | |
| | Pace | 10-3-18 | 1750 | Pace | 10/3/18 | 1750 | 4.8 | Y | N | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Alison Eggleston

SIGNATURE of SAMPLER: DATE Signed:

| TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| | | | |

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | Sarasota County | Report To: | Mr. Cesar Rodriguez | Attention: | |
| Address: | 1255 T. Mabry Carlton Parkway | Copy To: | | Company Name: | |
| Venice, FL 34292 | | | | Address: | |
| Email: | | Purchase Order #: | 180736 | Pace Quote: | |
| Phone: 941-650-9834 | Fax: | Project Name: | Central Cty MW wells Appdx 1 | Pace Project Manager: | martha.montero@pacelabs.com, |
| Requested Due Date: | | Project #: | | Pace Profile #: | 833 #1 |

Regulatory Agency

State / Location: FL

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Y/N | Analyses Test: VOC by 8260 | EDB and DBCP EPA 8011 | NH3 | metals by 6010/6020/7470 Fe,Hg,Na,Mn | TDS NO3 Cl SO4 | Residual Chlorine (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Requested Analysis Filtered (Y/N) | | | | | | | | | HCL | Unpreserved | H2SO4 | HNO3 | Unpreserved | | | | | | | | | | | |
| 13 | ~~MW-3 4503~~ QE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 14 | ~~MW-5 4505~~ QE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 15 | Trip Blank 8260 #1 | WT | | 10/3/18 | | | | | | | | | | | | | | | 2 | | | | | | |
| 16 | ~~Trip Blank 8260 #2~~ QE | WT | | | | | | | | | | | | | | | | | 2 | | | | | | |
| 17 | ~~Trip Blank 8260 #3~~ QE | WT | | | | | | | | | | | | | | | | | 2 | | | | | | |
| 18 | ~~Trip Blank 8260 #4~~ QE | WT | | | | | | | | | | | | | | | | | 2 | | | | | | |
| 19 | Trip Blank 8011 #1 | WT | | 10/3/18 | | | | | | | | | | | | | | | | 2 | | | | | |
| 20 | ~~Trip Blank 8011 #2~~ QE | WT | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 21 | ~~Trip Blank 8011 #3~~ QE | WT | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 22 | ~~Trip Blank 8011 $3~~ QE | WT | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 23 | | WT | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | WT | | | | | | | | | | | | | | | | | | | | | | | |

Please use ADAPT, analyze all compounds on App 1

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| Central county Monitoring wells Adapt | Alison Eggleston | 10/3/18 | 1345 | Pace | 10-3-18 | 1442 | T273 | | | |
| | Pace | 10-3-18 | 1750 | Pace | 10/3/18 | 1750 | 4.8 | Y | N | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alison Eggleston

SIGNATURE of SAMPLER: DATE Signed:

| Pace Analytical Florida Laboratory | Document Name: Sample Condition Upon Receipt Form | Document Revised: May 30, 2018 |
|---|---|---|
| | Document No.: F-FL-C-007 rev. 13 | Issuing Authority: Pace Florida Quality Office |

## Sample Condition Upon Receipt Form (SCUR)

**Project #** WO#: 35421718

**Project Manager:** PM: MIM **Due Date:** 10/17/18

**Client:** CLIENT: SARCOU

**Date and Initials of person:**
Examining contents: mrl
Label: 10/3/18
Deliver:
pH:

Thermometer Used: T-203 Date: 10/3/18 Time: 1750 Initials: mrl

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

| | | | | |
|---|---|---|---|---|
| **Cooler #1 Temp.°C** | 4.8 (Visual) | 0.0 (Correction Factor) | 4.8 (Actual) | ☒ Samples on ice, cooling process has begun |
| **Cooler #2 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| **Cooler #3 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| **Cooler #4 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| **Cooler #5 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| **Cooler #6 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

**Shipping Method:** ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

**Billing:** ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

**Tracking #**

**Custody Seal on Cooler/Box Present:** ☐ Yes ☒ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

**Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

**Samples shorted to lab (If Yes, complete)** Shorted Date: Shorted Time: Qty:

| | | Comments: |
|---|---|---|
| Chain of Custody Present | ☒ Yes ☐ No ☐ N/A | |
| Chain of Custody Filled Out | ☒ Yes ☐ No ☐ N/A | |
| Relinquished Signature & Sampler Name COC | ☒ Yes ☐ No ☐ N/A | |
| Samples Arrived within Hold Time | ☒ Yes ☐ No ☐ N/A | |
| Rush TAT requested on COC | ☐ Yes ☒ No ☐ N/A | |
| Sufficient Volume | ☒ Yes ☐ No ☐ N/A | |
| Correct Containers Used | ☒ Yes ☐ No ☐ N/A | |
| Containers Intact | ☒ Yes ☐ No ☐ N/A | |
| Sample Labels match COC (sample IDs & date/time of collection) | ☒ Yes ☐ No ☐ N/A | |
| All containers needing acid/base preservation have been checked. | ☒ Yes ☐ No ☐ N/A | Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials: |
| All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates | ☒ Yes ☐ No ☐ N/A | |
| Headspace in VOA Vials? ( >6mm): | ☐ Yes ☒ No ☐ N/A | |
| Trip Blank Present: | ☐ Yes ☐ No ☐ N/A | 1 of 2 have headspace |

**Client Notification/ Resolution:**
Person Contacted: Date/Time:

**Comments/ Resolution (use back for additional comments):**

Project Manager Review: Date:

**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

October 23, 2018

**REVIEWED**
*By Cesar Rodriguez-Palacios at 2:52 pm, Dec 05, 2018*

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

RE: Project: Central Cty MW
Pace Project No.: 35422648

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County



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# CERTIFICATIONS

Project: Central Cty MW
Pace Project No.: 35422648

**Ormond Beach Certification IDs**

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

**Tampa Certification IDs**

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

## REPORT OF LABORATORY ANALYSIS

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(386)672-5668

## SAMPLE SUMMARY

Project: Central Cty MW
Pace Project No.: 35422648

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **35422648001** | **MW-10R(4510)** | Water | 10/08/18 12:55 | 10/08/18 18:16 |
| **35422648002** | **MW-15(23031)** | Water | 10/08/18 10:35 | 10/08/18 18:16 |
| **35422648003** | **Trip Blank 8260 #4** | Water | 10/08/18 10:35 | 10/08/18 18:16 |
| **35422648004** | **Trip Blank 8011 #4** | Water | 10/08/18 10:35 | 10/08/18 18:16 |
| **35422648005** | **EQ Blank** | Water | 10/08/18 13:35 | 10/08/18 18:16 |
| **35422648006** | **Dup #2** | Water | 10/08/18 10:35 | 10/08/18 18:16 |



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## SAMPLE ANALYTE COUNT

Project: Central Cty MW
Pace Project No.: 35422648

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **35422648001** | **MW-10R(4510)** | EPA 8011 | SMH | 2 | PASI-O |
| | | EPA 6010 | JWP | 15 | PASI-O |
| | | EPA 6020 | KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | SK1 | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | SEW | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | JWH | 1 | PASI-O |
| **35422648002** | **MW-15(23031)** | EPA 8011 | SMH | 2 | PASI-O |
| | | EPA 6010 | JWP | 15 | PASI-O |
| | | EPA 6020 | KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | SK1 | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | SEW | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | JWH | 1 | PASI-O |
| **35422648003** | **Trip Blank 8260 #4** | EPA 8260 | SK1 | 48 | PASI-O |
| **35422648004** | **Trip Blank 8011 #4** | EPA 8011 | SMH | 2 | PASI-O |
| **35422648005** | **EQ Blank** | EPA 8011 | SMH | 2 | PASI-O |
| | | EPA 6010 | JWP | 15 | PASI-O |
| | | EPA 6020 | KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | SK1 | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | SEW | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | JWH | 1 | PASI-O |
| **35422648006** | **Dup #2** | EPA 8011 | SMH | 2 | PASI-O |
| | | EPA 6010 | JWP | 15 | PASI-O |
| | | EPA 6020 | KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | SK1 | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | SEW | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |

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Ormond Beach, FL 32174
(386)672-5668

## SAMPLE ANALYTE COUNT

Project: Central Cty MW
Pace Project No.: 35422648

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | EPA 353.2 | JWH | 1 | PASI-O |



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# ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: MW-10R(4510)** **Lab ID: 35422648001** Collected: 10/08/18 12:55 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.37** | Std. Units | | | 1 | | 10/08/18 12:55 | | |
| Field Temperature | **30.25** | deg C | | | 1 | | 10/08/18 12:55 | | |
| Field Specific Conductance | **1642** | umhos/cm | | | 1 | | 10/08/18 12:55 | | |
| Oxygen, Dissolved | **0.08** | mg/L | | | 1 | | 10/08/18 12:55 | 7782-44-7 | |
| Turbidity | **0.66** | NTU | | | 1 | | 10/08/18 12:55 | | |
| Water Level(NGVD) | **20.18** | feet | | | 1 | | 10/08/18 12:55 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0063 U** | ug/L | 0.020 | 0.0063 | 1 | 10/10/18 14:45 | 10/11/18 01:14 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0074 U** | ug/L | 0.0098 | 0.0074 | 1 | 10/10/18 14:45 | 10/11/18 01:14 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **76.0** | ug/L | 10.0 | 0.84 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7440-43-9 | |
| Chromium | **6.1** | ug/L | 5.0 | 1.7 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7440-47-3 | |
| Cobalt | **1.7 I** | ug/L | 10.0 | 0.96 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7440-50-8 | |
| Iron | **61500** | ug/L | 400 | 92.0 | 10 | 10/13/18 04:05 | 10/16/18 18:04 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7439-92-1 | |
| Manganese | **29.9** | ug/L | 5.0 | 0.42 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7439-96-5 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7440-22-4 | |
| Sodium | **78.2** | mg/L | 2.0 | 0.27 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7440-23-5 | |
| Vanadium | **3.7 I** | ug/L | 10.0 | 1.0 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/13/18 04:05 | 10/15/18 18:16 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/13/18 04:06 | 10/13/18 15:55 | 7440-36-0 | |
| Arsenic | **14.3** | ug/L | 1.0 | 0.50 | 1 | 10/13/18 04:06 | 10/13/18 15:55 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/13/18 04:06 | 10/13/18 15:55 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/22/18 15:50 | 10/23/18 14:05 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/18/18 12:34 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:34 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/18/18 12:34 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/18/18 12:34 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/18/18 12:34 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:34 | 78-93-3 | |

## REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: MW-10R(4510)** **Lab ID: 35422648001** Collected: 10/08/18 12:55 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:34 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/18/18 12:34 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/18/18 12:34 | 75-00-3 | J(L1) |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/18/18 12:34 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/18/18 12:34 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/18/18 12:34 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:34 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/18/18 12:34 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/18/18 12:34 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:34 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/18/18 12:34 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/18/18 12:34 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:34 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/18/18 12:34 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/18/18 12:34 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/18/18 12:34 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:34 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/18/18 12:34 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | | 1 | | 10/18/18 12:34 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 93 | % | 70-130 | | 1 | | 10/18/18 12:34 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 10/18/18 12:34 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **828** | mg/L | 10.0 | 10.0 | 1 | | 10/11/18 14:24 | | |

## REPORT OF LABORATORY ANALYSIS

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(386)672-5668

## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: MW-10R(4510)** **Lab ID: 35422648001** Collected: 10/08/18 12:55 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **90.2** | mg/L | 25.0 | 12.5 | 5 | | 10/17/18 22:55 | 16887-00-6 | |
| Sulfate | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/18/18 18:50 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **7.8** | mg/L | 0.050 | 0.035 | 1 | | 10/09/18 10:34 | 7664-41-7 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.11** | mg/L | 0.050 | 0.025 | 1 | | 10/09/18 09:01 | 14797-55-8 | |

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**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: MW-15(23031)** **Lab ID: 35422648002** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.81** | Std. Units | | | 1 | | 10/08/18 10:35 | | |
| Field Temperature | **29.14** | deg C | | | 1 | | 10/08/18 10:35 | | |
| Field Specific Conductance | **3435** | umhos/cm | | | 1 | | 10/08/18 10:35 | | |
| Oxygen, Dissolved | **0.34** | mg/L | | | 1 | | 10/08/18 10:35 | 7782-44-7 | |
| Turbidity | **8.26** | NTU | | | 1 | | 10/08/18 10:35 | | |
| Water Level(NGVD) | **20.81** | feet | | | 1 | | 10/08/18 10:35 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 10/10/18 14:45 | 10/11/18 01:43 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0072 U** | ug/L | 0.0097 | 0.0072 | 1 | 10/10/18 14:45 | 10/11/18 01:43 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **376** | ug/L | 10.0 | 0.84 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7440-43-9 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7440-47-3 | |
| Cobalt | **3.8 I** | ug/L | 10.0 | 0.96 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7440-50-8 | |
| Iron | **69200** | ug/L | 400 | 92.0 | 10 | 10/13/18 04:05 | 10/16/18 18:06 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7439-92-1 | |
| Manganese | **646** | ug/L | 5.0 | 0.42 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7439-96-5 | |
| Nickel | **5.2** | ug/L | 5.0 | 2.1 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7440-22-4 | |
| Sodium | **66.6** | mg/L | 2.0 | 0.27 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7440-23-5 | |
| Vanadium | **6.5 I** | ug/L | 10.0 | 1.0 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/13/18 04:05 | 10/15/18 18:19 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/13/18 04:06 | 10/13/18 15:57 | 7440-36-0 | |
| Arsenic | **73.1** | ug/L | 1.0 | 0.50 | 1 | 10/13/18 04:06 | 10/13/18 15:57 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/13/18 04:06 | 10/13/18 15:57 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/22/18 15:50 | 10/23/18 14:16 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/18/18 12:58 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:58 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/18/18 12:58 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/18/18 12:58 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/18/18 12:58 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:58 | 78-93-3 | |

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## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: MW-15(23031)** **Lab ID: 35422648002** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:58 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/18/18 12:58 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/18/18 12:58 | 75-00-3 | J(L1) |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/18/18 12:58 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/18/18 12:58 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/18/18 12:58 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:58 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/18/18 12:58 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/18/18 12:58 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:58 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/18/18 12:58 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/18/18 12:58 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:58 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/18/18 12:58 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/18/18 12:58 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/18/18 12:58 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:58 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/18/18 12:58 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | | 1 | | 10/18/18 12:58 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 93 | % | 70-130 | | 1 | | 10/18/18 12:58 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 10/18/18 12:58 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **2160** | mg/L | 20.0 | 20.0 | 1 | | 10/11/18 14:24 | | |

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## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: MW-15(23031)** **Lab ID: 35422648002** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **146** | mg/L | 100 | 50.0 | 20 | | 10/17/18 23:18 | 16887-00-6 | |
| Sulfate | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/19/18 08:53 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **29.7** | mg/L | 0.75 | 0.52 | 15 | | 10/10/18 08:37 | 7664-41-7 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.082** | mg/L | 0.050 | 0.025 | 1 | | 10/09/18 08:39 | 14797-55-8 | |

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## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: Trip Blank 8260 #4** **Lab ID: 35422648003** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/18/18 11:46 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 11:46 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/18/18 11:46 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/18/18 11:46 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/18/18 11:46 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 11:46 | 78-93-3 | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 11:46 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/18/18 11:46 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/18/18 11:46 | 75-00-3 | J(L1) |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/18/18 11:46 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/18/18 11:46 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/18/18 11:46 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 11:46 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/18/18 11:46 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/18/18 11:46 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 11:46 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/18/18 11:46 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/18/18 11:46 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 11:46 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/18/18 11:46 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/18/18 11:46 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/18/18 11:46 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 11:46 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/18/18 11:46 | 1330-20-7 | |

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## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: Trip Blank 8260 #4** **Lab ID: 35422648003** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | | 1 | | 10/18/18 11:46 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 70-130 | | 1 | | 10/18/18 11:46 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 10/18/18 11:46 | 2037-26-5 | |

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## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: Trip Blank 8011 #4** **Lab ID: 35422648004** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0061 U** | ug/L | 0.019 | 0.0061 | 1 | 10/10/18 14:45 | 10/11/18 01:58 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0072 U** | ug/L | 0.0095 | 0.0072 | 1 | 10/10/18 14:45 | 10/11/18 01:58 | 106-93-4 | |

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## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: EQ Blank** **Lab ID: 35422648005** Collected: 10/08/18 13:35 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 10/10/18 14:45 | 10/11/18 02:13 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0072 U** | ug/L | 0.0096 | 0.0072 | 1 | 10/10/18 14:45 | 10/11/18 02:13 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **0.84 U** | ug/L | 10.0 | 0.84 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7440-43-9 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7440-47-3 | |
| Cobalt | **0.96 U** | ug/L | 10.0 | 0.96 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7440-50-8 | |
| Iron | **9.2 U** | ug/L | 40.0 | 9.2 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7439-92-1 | |
| Manganese | **0.42 U** | ug/L | 5.0 | 0.42 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7439-96-5 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7440-22-4 | |
| Sodium | **0.27 U** | mg/L | 2.0 | 0.27 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7440-23-5 | |
| Vanadium | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/13/18 04:05 | 10/15/18 18:22 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/13/18 04:06 | 10/13/18 15:58 | 7440-36-0 | |
| Arsenic | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/13/18 04:06 | 10/13/18 15:58 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/13/18 04:06 | 10/13/18 15:58 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/22/18 15:50 | 10/23/18 14:20 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **13.3 I** | ug/L | 20.0 | 10.0 | 1 | | 10/18/18 12:10 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:10 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/18/18 12:10 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/18/18 12:10 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/18/18 12:10 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:10 | 78-93-3 | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:10 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/18/18 12:10 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/18/18 12:10 | 75-00-3 | J(L1) |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/18/18 12:10 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/18/18 12:10 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/18/18 12:10 | 74-95-3 | |

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(386)672-5668

## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: EQ Blank** **Lab ID: 35422648005** Collected: 10/08/18 13:35 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:10 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/18/18 12:10 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/18/18 12:10 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:10 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/18/18 12:10 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/18/18 12:10 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 12:10 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/18/18 12:10 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/18/18 12:10 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/18/18 12:10 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 12:10 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/18/18 12:10 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 101 | % | 70-130 | | 1 | | 10/18/18 12:10 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 93 | % | 70-130 | | 1 | | 10/18/18 12:10 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 10/18/18 12:10 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **5.0 U** | mg/L | 5.0 | 5.0 | 1 | | 10/11/18 14:25 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/17/18 23:41 | 16887-00-6 | |
| Sulfate | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/17/18 23:41 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.035 U** | mg/L | 0.050 | 0.035 | 1 | | 10/09/18 10:40 | 7664-41-7 | |

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## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: EQ Blank** **Lab ID: 35422648005** Collected: 10/08/18 13:35 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 10/09/18 09:02 | 14797-55-8 | |

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## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: Dup #2** **Lab ID: 35422648006** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.81** | Std. Units | | | 1 | | 10/08/18 10:35 | | |
| Field Temperature | **29.14** | deg C | | | 1 | | 10/08/18 10:35 | | |
| Field Specific Conductance | **3435** | umhos/cm | | | 1 | | 10/08/18 10:35 | | |
| Oxygen, Dissolved | **0.34** | mg/L | | | 1 | | 10/08/18 10:35 | 7782-44-7 | |
| Turbidity | **8.26** | NTU | | | 1 | | 10/08/18 10:35 | | |
| Water Level(NGVD) | **20.81** | feet | | | 1 | | 10/08/18 10:35 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 10/10/18 14:45 | 10/11/18 02:28 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0072 U** | ug/L | 0.0096 | 0.0072 | 1 | 10/10/18 14:45 | 10/11/18 02:28 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **379** | ug/L | 10.0 | 0.84 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7440-41-7 | |
| Cadmium | **0.55 I** | ug/L | 1.0 | 0.33 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7440-43-9 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7440-47-3 | |
| Cobalt | **3.7 I** | ug/L | 10.0 | 0.96 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7440-50-8 | |
| Iron | **69100** | ug/L | 400 | 92.0 | 10 | 10/13/18 04:05 | 10/16/18 18:09 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7439-92-1 | |
| Manganese | **650** | ug/L | 5.0 | 0.42 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7439-96-5 | |
| Nickel | **5.2** | ug/L | 5.0 | 2.1 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7440-22-4 | |
| Sodium | **67.2** | mg/L | 2.0 | 0.27 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7440-23-5 | |
| Vanadium | **6.8 I** | ug/L | 10.0 | 1.0 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/13/18 04:05 | 10/15/18 18:25 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/13/18 04:06 | 10/13/18 14:34 | 7440-36-0 | |
| Arsenic | **74.2** | ug/L | 1.0 | 0.50 | 1 | 10/13/18 04:06 | 10/13/18 14:34 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/13/18 04:06 | 10/13/18 14:34 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/22/18 15:50 | 10/23/18 14:23 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/18/18 13:22 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 13:22 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/18/18 13:22 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/18/18 13:22 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/18/18 13:22 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 13:22 | 78-93-3 | |

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## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: Dup #2** **Lab ID: 35422648006** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 13:22 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/18/18 13:22 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/18/18 13:22 | 75-00-3 | J(L1) |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/18/18 13:22 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/18/18 13:22 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/18/18 13:22 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 13:22 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/18/18 13:22 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/18/18 13:22 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 13:22 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/18/18 13:22 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/18/18 13:22 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/18/18 13:22 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/18/18 13:22 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/18/18 13:22 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/18/18 13:22 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/18/18 13:22 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/18/18 13:22 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | | 1 | | 10/18/18 13:22 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 93 | % | 70-130 | | 1 | | 10/18/18 13:22 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 10/18/18 13:22 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **2190** | mg/L | 20.0 | 20.0 | 1 | | 10/11/18 14:26 | | |

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## ANALYTICAL RESULTS

Project: Central Cty MW
Pace Project No.: 35422648

**Sample: Dup #2** **Lab ID: 35422648006** Collected: 10/08/18 10:35 Received: 10/08/18 18:16 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **144** | mg/L | 100 | 50.0 | 20 | | 10/18/18 00:52 | 16887-00-6 | |
| Sulfate | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/19/18 09:16 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **6.0** | mg/L | 0.050 | 0.035 | 1 | | 10/10/18 08:58 | 7664-41-7 | J(M1) |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.074** | mg/L | 0.050 | 0.025 | 1 | | 10/09/18 08:41 | 14797-55-8 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 487348 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

METHOD BLANK: 2636863 Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 0.10 U | 0.20 | 0.10 | 10/23/18 14:01 | |

LABORATORY CONTROL SAMPLE: 2636864

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 2 | 2.2 | 108 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2636865 2636866

| Parameter | Units | 35422648001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 0.10 U | 2 | 2 | 1.9 | 1.8 | 96 | 91 | 75-125 | 5 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 485334 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

METHOD BLANK: 2626111 Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Barium | ug/L | 0.84 U | 10.0 | 0.84 | 10/15/18 17:30 | |
| Beryllium | ug/L | 1.6 U | 4.0 | 1.6 | 10/15/18 17:30 | |
| Cadmium | ug/L | 0.33 U | 1.0 | 0.33 | 10/15/18 17:30 | |
| Chromium | ug/L | 1.7 U | 5.0 | 1.7 | 10/15/18 17:30 | |
| Cobalt | ug/L | 0.96 U | 10.0 | 0.96 | 10/15/18 17:30 | |
| Copper | ug/L | 2.6 U | 5.0 | 2.6 | 10/15/18 17:30 | |
| Iron | ug/L | 9.2 U | 40.0 | 9.2 | 10/15/18 17:30 | |
| Lead | ug/L | 4.6 U | 10.0 | 4.6 | 10/15/18 17:30 | |
| Manganese | ug/L | 0.42 U | 5.0 | 0.42 | 10/15/18 17:30 | |
| Nickel | ug/L | 2.1 U | 5.0 | 2.1 | 10/15/18 17:30 | |
| Selenium | ug/L | 8.5 U | 15.0 | 8.5 | 10/15/18 17:30 | |
| Silver | ug/L | 1.0 U | 5.0 | 1.0 | 10/15/18 17:30 | |
| Sodium | mg/L | 0.27 U | 2.0 | 0.27 | 10/15/18 17:30 | |
| Vanadium | ug/L | 1.0 U | 10.0 | 1.0 | 10/15/18 17:30 | |
| Zinc | ug/L | 11.0 U | 20.0 | 11.0 | 10/15/18 17:30 | |

LABORATORY CONTROL SAMPLE: 2626112

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Barium | ug/L | 250 | 252 | 101 | 80-120 | |
| Beryllium | ug/L | 25 | 23.9 | 96 | 80-120 | |
| Cadmium | ug/L | 25 | 25.6 | 102 | 80-120 | |
| Chromium | ug/L | 250 | 249 | 100 | 80-120 | |
| Cobalt | ug/L | 250 | 251 | 100 | 80-120 | |
| Copper | ug/L | 250 | 238 | 95 | 80-120 | |
| Iron | ug/L | 2500 | 2530 | 101 | 80-120 | |
| Lead | ug/L | 250 | 253 | 101 | 80-120 | |
| Manganese | ug/L | 250 | 253 | 101 | 80-120 | |
| Nickel | ug/L | 250 | 254 | 101 | 80-120 | |
| Selenium | ug/L | 250 | 251 | 100 | 80-120 | |
| Silver | ug/L | 25 | 24.3 | 97 | 80-120 | |
| Sodium | mg/L | 12.5 | 12.3 | 99 | 80-120 | |
| Vanadium | ug/L | 250 | 246 | 99 | 80-120 | |
| Zinc | ug/L | 1250 | 1290 | 103 | 80-120 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626113 2626114

| Parameter | Units | 35422206001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | ug/L | 4.9 I | 250 | 250 | 257 | 255 | 101 | 100 | 75-125 | 1 | 20 | |
| Beryllium | ug/L | 1.6 U | 25 | 25 | 24.4 | 24.1 | 98 | 96 | 75-125 | 1 | 20 | |
| Cadmium | ug/L | 0.33 U | 25 | 25 | 25.5 | 25.2 | 101 | 100 | 75-125 | 1 | 20 | |
| Chromium | ug/L | 1.7 U | 250 | 250 | 250 | 247 | 100 | 99 | 75-125 | 1 | 20 | |
| Cobalt | ug/L | 0.96 U | 250 | 250 | 250 | 248 | 100 | 99 | 75-125 | 1 | 20 | |
| Copper | ug/L | 2.6 U | 250 | 250 | 240 | 237 | 96 | 95 | 75-125 | 1 | 20 | |
| Iron | ug/L | 9.2 U | 2500 | 2500 | 2550 | 2540 | 102 | 101 | 75-125 | 1 | 20 | |
| Lead | ug/L | 4.6 U | 250 | 250 | 252 | 250 | 101 | 100 | 75-125 | 1 | 20 | |
| Manganese | ug/L | 32.8 | 250 | 250 | 286 | 282 | 101 | 100 | 75-125 | 1 | 20 | |
| Nickel | ug/L | 2.1 U | 250 | 250 | 253 | 248 | 101 | 99 | 75-125 | 2 | 20 | |
| Selenium | ug/L | 8.5 U | 250 | 250 | 249 | 246 | 99 | 98 | 75-125 | 1 | 20 | |
| Silver | ug/L | 1.0 U | 25 | 25 | 24.6 | 24.6 | 98 | 98 | 75-125 | 0 | 20 | |
| Sodium | mg/L | 5.5 | 12.5 | 12.5 | 18.2 | 18.0 | 101 | 100 | 75-125 | 1 | 20 | |
| Vanadium | ug/L | 3.0 I | 250 | 250 | 254 | 251 | 100 | 99 | 75-125 | 1 | 20 | |
| Zinc | ug/L | 11.0 U | 1250 | 1250 | 1270 | 1260 | 101 | 100 | 75-125 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 485333 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

METHOD BLANK: 2626107 Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 0.50 U | 1.0 | 0.50 | 10/13/18 12:29 | |
| Arsenic | ug/L | 0.50 U | 1.0 | 0.50 | 10/13/18 12:29 | |
| Thallium | ug/L | 0.50 U | 1.0 | 0.50 | 10/13/18 12:29 | |

LABORATORY CONTROL SAMPLE: 2626108

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 50 | 46.6 | 93 | 80-120 | |
| Arsenic | ug/L | 50 | 49.1 | 98 | 80-120 | |
| Thallium | ug/L | 50 | 50.5 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626109 2626110

| Parameter | Units | 35422206002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ug/L | 0.50 U | 50 | 50 | 45.0 | 45.0 | 90 | 90 | 75-125 | 0 | 20 | |
| Arsenic | ug/L | 4.9 | 50 | 50 | 53.1 | 52.5 | 96 | 95 | 75-125 | 1 | 20 | |
| Thallium | ug/L | 0.50 U | 50 | 50 | 48.5 | 48.8 | 97 | 98 | 75-125 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 486583 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35422648001, 35422648002, 35422648003, 35422648005, 35422648006

METHOD BLANK: 2632575 Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648003, 35422648005, 35422648006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 0.50 | 0.12 | 10/18/18 11:22 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 2.0 | 0.59 | 10/18/18 11:22 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 10.0 | 5.0 | 10/18/18 11:22 | |
| 2-Hexanone | ug/L | 5.0 U | 10.0 | 5.0 | 10/18/18 11:22 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 10.0 | 5.0 | 10/18/18 11:22 | |
| Acetone | ug/L | 10.0 U | 20.0 | 10.0 | 10/18/18 11:22 | |
| Acrylonitrile | ug/L | 5.0 U | 10.0 | 5.0 | 10/18/18 11:22 | |
| Benzene | ug/L | 0.10 U | 1.0 | 0.10 | 10/18/18 11:22 | |
| Bromochloromethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| Bromodichloromethane | ug/L | 0.27 U | 0.60 | 0.27 | 10/18/18 11:22 | |
| Bromoform | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| Bromomethane | ug/L | 0.50 U | 5.0 | 0.50 | 10/18/18 11:22 | |
| Carbon disulfide | ug/L | 5.0 U | 10.0 | 5.0 | 10/18/18 11:22 | |
| Carbon tetrachloride | ug/L | 0.50 U | 3.0 | 0.50 | 10/18/18 11:22 | |
| Chlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| Chloroethane | ug/L | 0.50 U | 10.0 | 0.50 | 10/18/18 11:22 | |
| Chloroform | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| Chloromethane | ug/L | 0.62 U | 1.0 | 0.62 | 10/18/18 11:22 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 0.50 | 0.25 | 10/18/18 11:22 | |
| Dibromochloromethane | ug/L | 0.26 U | 2.0 | 0.26 | 10/18/18 11:22 | |
| Dibromomethane | ug/L | 0.50 U | 2.0 | 0.50 | 10/18/18 11:22 | |
| Ethylbenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| Iodomethane | ug/L | 0.50 U | 10.0 | 0.50 | 10/18/18 11:22 | |
| Methylene Chloride | ug/L | 2.5 U | 5.0 | 2.5 | 10/18/18 11:22 | |
| Styrene | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| Tetrachloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| Toluene | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 0.50 | 0.25 | 10/18/18 11:22 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 10.0 | 5.0 | 10/18/18 11:22 | |
| Trichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

METHOD BLANK: 2632575 Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648003, 35422648005, 35422648006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| Vinyl acetate | ug/L | 1.0 U | 10.0 | 1.0 | 10/18/18 11:22 | |
| Vinyl chloride | ug/L | 0.50 U | 1.0 | 0.50 | 10/18/18 11:22 | |
| Xylene (Total) | ug/L | 1.5 U | 3.0 | 1.5 | 10/18/18 11:22 | |
| 1,2-Dichloroethane-d4 (S) | % | 93 | 70-130 | | 10/18/18 11:22 | |
| 4-Bromofluorobenzene (S) | % | 102 | 70-130 | | 10/18/18 11:22 | |
| Toluene-d8 (S) | % | 104 | 70-130 | | 10/18/18 11:22 | |

LABORATORY CONTROL SAMPLE: 2632576

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 19.8 | 99 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 17.8 | 89 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 21.8 | 109 | 68-125 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 21.5 | 108 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 20 | 18.8 | 94 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 20 | 19.6 | 98 | 66-133 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 22.0 | 110 | 62-127 | |
| 1,2-Dichlorobenzene | ug/L | 20 | 20.4 | 102 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 20 | 18.6 | 93 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 20 | 19.6 | 98 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 19.9 | 100 | 70-130 | |
| 2-Butanone (MEK) | ug/L | 40 | 41.6 | 104 | 47-143 | |
| 2-Hexanone | ug/L | 40 | 45.9 | 115 | 48-145 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 40 | 43.4 | 109 | 57-132 | |
| Acetone | ug/L | 40 | 43.9 | 110 | 46-148 | |
| Acrylonitrile | ug/L | 200 | 221 | 110 | 60-143 | |
| Benzene | ug/L | 20 | 19.2 | 96 | 70-130 | |
| Bromochloromethane | ug/L | 20 | 19.2 | 96 | 70-130 | |
| Bromodichloromethane | ug/L | 20 | 18.9 | 94 | 70-130 | |
| Bromoform | ug/L | 20 | 17.6 | 88 | 49-126 | |
| Bromomethane | ug/L | 20 | 17.4 | 87 | 10-165 | |
| Carbon disulfide | ug/L | 20 | 21.5 | 108 | 60-141 | |
| Carbon tetrachloride | ug/L | 20 | 18.1 | 91 | 63-126 | |
| Chlorobenzene | ug/L | 20 | 20.4 | 102 | 70-130 | |
| Chloroethane | ug/L | 20 | 30.7 | 153 | 71-142 | J(L1) |
| Chloroform | ug/L | 20 | 18.2 | 91 | 70-130 | |
| Chloromethane | ug/L | 20 | 14.7 | 73 | 40-140 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 18.3 | 91 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 18.0 | 90 | 70-130 | |
| Dibromochloromethane | ug/L | 20 | 16.9 | 84 | 62-118 | |
| Dibromomethane | ug/L | 20 | 20.6 | 103 | 70-130 | |
| Ethylbenzene | ug/L | 20 | 19.6 | 98 | 70-130 | |
| Iodomethane | ug/L | 40 | 33.7 | 84 | 10-164 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

LABORATORY CONTROL SAMPLE: 2632576

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Methylene Chloride | ug/L | 20 | 20.2 | 101 | 65-136 | |
| Styrene | ug/L | 20 | 20.9 | 105 | 70-130 | |
| Tetrachloroethene | ug/L | 20 | 20.6 | 103 | 64-134 | |
| Toluene | ug/L | 20 | 20.2 | 101 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 20 | 17.6 | 88 | 68-127 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 17.8 | 89 | 65-121 | |
| trans-1,4-Dichloro-2-butene | ug/L | 20 | 18.9 | 94 | 42-129 | |
| Trichloroethene | ug/L | 20 | 20.0 | 100 | 70-130 | |
| Trichlorofluoromethane | ug/L | 20 | 20.1 | 101 | 65-135 | |
| Vinyl acetate | ug/L | 20 | 22.4 | 112 | 60-144 | |
| Vinyl chloride | ug/L | 20 | 21.5 | 108 | 68-131 | |
| Xylene (Total) | ug/L | 60 | 60.5 | 101 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 88 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 103 | 70-130 | |
| Toluene-d8 (S) | % | | | 102 | 70-130 | |

MATRIX SPIKE SAMPLE: 2635334

| Parameter | Units | 35424362003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 20 | 18.5 | 92 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 20 | 18.8 | 94 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 20 | 21.5 | 107 | 68-125 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 20 | 20.4 | 102 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 20 | 17.1 | 86 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 20 | 17.2 | 86 | 66-133 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 20 | 20.8 | 104 | 62-127 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 20 | 18.6 | 93 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 20 | 18.3 | 91 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 20 | 19.4 | 97 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 20 | 19.3 | 97 | 70-130 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 40 | 36.2 | 91 | 47-143 | |
| 2-Hexanone | ug/L | 5.0 U | 40 | 37.9 | 95 | 48-145 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 40 | 37.9 | 95 | 57-132 | |
| Acetone | ug/L | 10.0 U | 40 | 29.5 | 74 | 46-148 | |
| Acrylonitrile | ug/L | 5.0 U | 200 | 167 | 84 | 60-143 | |
| Benzene | ug/L | 0.10 U | 20 | 19.7 | 98 | 70-130 | |
| Bromochloromethane | ug/L | 0.50 U | 20 | 18.6 | 93 | 70-130 | |
| Bromodichloromethane | ug/L | 0.27 U | 20 | 18.6 | 93 | 70-130 | |
| Bromoform | ug/L | 0.50 U | 20 | 16.4 | 82 | 49-126 | |
| Bromomethane | ug/L | 0.50 U | 20 | 11.1 | 56 | 10-165 | |
| Carbon disulfide | ug/L | 5.0 U | 20 | 17.4 | 87 | 60-141 | |
| Carbon tetrachloride | ug/L | 0.50 U | 20 | 18.9 | 95 | 63-126 | |
| Chlorobenzene | ug/L | 0.50 U | 20 | 19.4 | 97 | 70-130 | |
| Chloroethane | ug/L | 0.50 U | 20 | 24.8 | 124 | 71-142 | |
| Chloroform | ug/L | 0.50 U | 20 | 18.6 | 93 | 70-130 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

MATRIX SPIKE SAMPLE: 2635334

| Parameter | Units | 35424362003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chloromethane | ug/L | 0.62 U | 20 | 13.2 | 66 | 40-140 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 20 | 18.5 | 93 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 20 | 16.0 | 80 | 70-130 | |
| Dibromochloromethane | ug/L | 0.26 U | 20 | 16.0 | 80 | 62-118 | |
| Dibromomethane | ug/L | 0.50 U | 20 | 18.3 | 92 | 70-130 | |
| Ethylbenzene | ug/L | 0.50 U | 20 | 19.4 | 97 | 70-130 | |
| Iodomethane | ug/L | 0.50 U | 40 | 17.4 | 43 | 10-164 | |
| Methylene Chloride | ug/L | 2.5 U | 20 | 15.5 | 77 | 65-136 | |
| Styrene | ug/L | 0.50 U | 20 | 18.7 | 93 | 70-130 | |
| Tetrachloroethene | ug/L | 0.50 U | 20 | 18.7 | 94 | 64-134 | |
| Toluene | ug/L | 0.50 U | 20 | 21.0 | 105 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 20 | 15.1 | 76 | 68-127 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 20 | 17.3 | 87 | 65-121 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 20 | 14.8 | 74 | 42-129 | |
| Trichloroethene | ug/L | 0.50 U | 20 | 19.0 | 95 | 70-130 | |
| Trichlorofluoromethane | ug/L | 0.50 U | 20 | 19.3 | 97 | 65-135 | |
| Vinyl acetate | ug/L | 1.0 U | 20 | 17.7 | 89 | 60-144 | |
| Vinyl chloride | ug/L | 0.50 U | 20 | 19.9 | 100 | 68-131 | |
| Xylene (Total) | ug/L | 1.5 U | 60 | 59.4 | 99 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 97 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 103 | 70-130 | |
| Toluene-d8 (S) | % | | | | 103 | 70-130 | |

SAMPLE DUPLICATE: 2635333

| Parameter | Units | 35424362002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 0.12 U | | 40 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 0.59 U | | 40 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 5.0 U | | 40 | |
| 2-Hexanone | ug/L | 5.0 U | 5.0 U | | 40 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 5.0 U | | 40 | |
| Acetone | ug/L | 10.0 U | 10.0 U | | 40 | |
| Acrylonitrile | ug/L | 5.0 U | 5.0 U | | 40 | |
| Benzene | ug/L | 0.10 U | 0.10 U | | 40 | |
| Bromochloromethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Bromodichloromethane | ug/L | 0.27 U | 0.27 U | | 40 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

SAMPLE DUPLICATE: 2635333

| Parameter | Units | 35424362002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Bromoform | ug/L | 0.50 U | 0.50 U | | 40 | |
| Bromomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Carbon disulfide | ug/L | 5.0 U | 5.0 U | | 40 | |
| Carbon tetrachloride | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloroform | ug/L | 0.536 I | 0.55 I | | 40 | |
| Chloromethane | ug/L | 0.62 U | 0.62 U | | 40 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 0.25 U | | 40 | |
| Dibromochloromethane | ug/L | 0.26 U | 0.26 U | | 40 | |
| Dibromomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Ethylbenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Iodomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Methylene Chloride | ug/L | 2.5 U | 2.5 U | | 40 | |
| Styrene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Tetrachloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Toluene | ug/L | 0.50 U | 0.50 U | | 40 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 0.25 U | | 40 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 5.0 U | | 40 | |
| Trichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Trichlorofluoromethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Vinyl acetate | ug/L | 1.0 U | 1.0 U | | 40 | |
| Vinyl chloride | ug/L | 0.50 U | 0.50 U | | 40 | |
| Xylene (Total) | ug/L | 1.5 U | 1.5 U | | 40 | |
| 1,2-Dichloroethane-d4 (S) | % | 95 | 93 | 3 | 40 | |
| 4-Bromofluorobenzene (S) | % | 97 | 95 | 2 | 40 | |
| Toluene-d8 (S) | % | 103 | 101 | 2 | 40 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 484325 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35422648001, 35422648002, 35422648004, 35422648005, 35422648006

METHOD BLANK: 2620386 Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648004, 35422648005, 35422648006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | 0.0064 U | 0.020 | 0.0064 | 10/10/18 23:00 | |
| 1,2-Dibromoethane (EDB) | ug/L | 0.0075 U | 0.010 | 0.0075 | 10/10/18 23:00 | |

LABORATORY CONTROL SAMPLE: 2620387

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | .25 | 0.27 | 109 | 60-140 | |
| 1,2-Dibromoethane (EDB) | ug/L | .25 | 0.27 | 109 | 60-140 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2620471 2620472

| Parameter | Units | 35422733002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | | .44 | .44 | 0.48 | 0.46 | 109 | 105 | 60-140 | 4 | 40 | |
| 1,2-Dibromoethane (EDB) | ug/L | 0.0073 U | .44 | .44 | 0.49 | 0.48 | 111 | 110 | 60-140 | 1 | 40 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 484721 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

METHOD BLANK: 2622442 Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 5.0 U | 5.0 | 5.0 | 10/11/18 14:15 | |

LABORATORY CONTROL SAMPLE: 2622443

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 300 | 295 | 98 | 90-110 | |

SAMPLE DUPLICATE: 2622444

| Parameter | Units | 35421419013 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 920 | 930 | 1 | 5 | |

SAMPLE DUPLICATE: 2622445

| Parameter | Units | 35422660005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 970 | 976 | 1 | 5 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 486114 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

METHOD BLANK: 2630284 Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648005, 35422648006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 2.5 U | 5.0 | 2.5 | 10/17/18 15:30 | |
| Sulfate | mg/L | 2.5 U | 5.0 | 2.5 | 10/17/18 15:30 | |

LABORATORY CONTROL SAMPLE: 2630285

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 50 | 50.1 | 100 | 90-110 | |
| Sulfate | mg/L | 50 | 49.7 | 99 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2630604 2630605

| Parameter | Units | 35424145005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 54.0 | 50 | 50 | 111 | 110 | 113 | 113 | 90-110 | 0 | 20 | J(M1), L |
| Sulfate | mg/L | 22.2 | 50 | 50 | 76.2 | 75.7 | 108 | 107 | 90-110 | 1 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2630606 2630607

| Parameter | Units | 35422648005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 2.5 U | 50 | 50 | 49.8 | 50.2 | 96 | 97 | 90-110 | 1 | 20 | |
| Sulfate | mg/L | 2.5 U | 50 | 50 | 49.4 | 49.7 | 99 | 99 | 90-110 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 486528 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35422648001, 35422648002, 35422648006

METHOD BLANK: 2632448 Matrix: Water
Associated Lab Samples: 35422648001, 35422648002, 35422648006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | mg/L | 2.5 U | 5.0 | 2.5 | 10/18/18 13:45 | |

LABORATORY CONTROL SAMPLE: 2632449

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | mg/L | 50 | 48.4 | 97 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2632450 2632451

| Parameter | Units | 35422823001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | mg/L | 142 | 100 | 100 | 254 | 258 | 112 | 116 | 90-110 | 2 | 20 | J(M1), L |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2632452 2632453

| Parameter | Units | 35424147006 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | mg/L | 168 | 250 | 250 | 437 | 438 | 107 | 108 | 90-110 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 483936 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35422648001, 35422648005

METHOD BLANK: 2618599 Matrix: Water
Associated Lab Samples: 35422648001, 35422648005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.035 U | 0.050 | 0.035 | 10/09/18 10:20 | |

LABORATORY CONTROL SAMPLE: 2618600

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 1 | 1.1 | 105 | 90-110 | |

MATRIX SPIKE SAMPLE: 2618602

| Parameter | Units | 35422669001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 6.0 | 1 | 6.9 | 91 | 90-110 | |

SAMPLE DUPLICATE: 2618601

| Parameter | Units | 35422669001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 6.0 | 6.0 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 484297
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35422648006

METHOD BLANK: 2620267
Matrix: Water
Associated Lab Samples: 35422648006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.035 U | 0.050 | 0.035 | 10/10/18 08:54 | |

LABORATORY CONTROL SAMPLE: 2620268

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 1 | 1.0 | 100 | 90-110 | |

MATRIX SPIKE SAMPLE: 2620270

| Parameter | Units | 35422648006 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 6.0 | 1 | 6.9 | 87 | 90-110 | J(M1) |

SAMPLE DUPLICATE: 2620269

| Parameter | Units | 35422648006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 6.0 | 6.0 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 484300 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35422648002

METHOD BLANK: 2620275 Matrix: Water
Associated Lab Samples: 35422648002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.035 U | 0.050 | 0.035 | 10/10/18 08:00 | |

LABORATORY CONTROL SAMPLE: 2620276

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 1 | 1.0 | 99 | 90-110 | |

MATRIX SPIKE SAMPLE: 2620278

| Parameter | Units | 35422973001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.059 | 1 | 1.1 | 99 | 90-110 | |

SAMPLE DUPLICATE: 2620277

| Parameter | Units | 35422973001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.059 | 0.058 | 2 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 483945
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35422648002, 35422648006

METHOD BLANK: 2618623 Matrix: Water
Associated Lab Samples: 35422648002, 35422648006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.025 U | 0.050 | 0.025 | 10/09/18 08:02 | |

SAMPLE DUPLICATE: 2618625

| Parameter | Units | 7595891001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.63 | 0.60 | 5 | 20 | |

SAMPLE DUPLICATE: 2618627

| Parameter | Units | 35422660004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.074 | 0.077 | 5 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty MW
Pace Project No.: 35422648

QC Batch: 483946 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35422648001, 35422648005

METHOD BLANK: 2618629 Matrix: Water
Associated Lab Samples: 35422648001, 35422648005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.025 U | 0.050 | 0.025 | 10/09/18 08:48 | |

SAMPLE DUPLICATE: 2618631

| Parameter | Units | 35422597001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.041 I | 0.045 I | | 20 | |

SAMPLE DUPLICATE: 2618633

| Parameter | Units | 35422660005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.025 U | 0.025 U | | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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(386)672-5668

# QUALIFIERS

Project: Central Cty MW
Pace Project No.: 35422648

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-O | Pace Analytical Services - Ormond Beach |
| PASI-Tp | Pace Analytical Services - Tampa |

## ANALYTE QUALIFIERS

| | |
|---|---|
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| U | Compound was analyzed for but not detected. |
| J(L1) | Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high. |
| J(M1) | Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| L | Off-scale high. Actual value is known to be greater than value given. |



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Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central Cty MW
Pace Project No.: 35422648

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **35422648001** | **MW-10R(4510)** | | | | |
| **35422648002** | **MW-15(23031)** | | | | |
| **35422648006** | **Dup #2** | | | | |
| **35422648001** | **MW-10R(4510)** | EPA 8011 | 484325 | EPA 8011 | 484568 |
| **35422648002** | **MW-15(23031)** | EPA 8011 | 484325 | EPA 8011 | 484568 |
| **35422648004** | **Trip Blank 8011 #4** | EPA 8011 | 484325 | EPA 8011 | 484568 |
| **35422648005** | **EQ Blank** | EPA 8011 | 484325 | EPA 8011 | 484568 |
| **35422648006** | **Dup #2** | EPA 8011 | 484325 | EPA 8011 | 484568 |
| **35422648001** | **MW-10R(4510)** | EPA 3010 | 485334 | EPA 6010 | 485337 |
| **35422648002** | **MW-15(23031)** | EPA 3010 | 485334 | EPA 6010 | 485337 |
| **35422648005** | **EQ Blank** | EPA 3010 | 485334 | EPA 6010 | 485337 |
| **35422648006** | **Dup #2** | EPA 3010 | 485334 | EPA 6010 | 485337 |
| **35422648001** | **MW-10R(4510)** | EPA 3010 | 485333 | EPA 6020 | 485336 |
| **35422648002** | **MW-15(23031)** | EPA 3010 | 485333 | EPA 6020 | 485336 |
| **35422648005** | **EQ Blank** | EPA 3010 | 485333 | EPA 6020 | 485336 |
| **35422648006** | **Dup #2** | EPA 3010 | 485333 | EPA 6020 | 485336 |
| **35422648001** | **MW-10R(4510)** | EPA 7470 | 487348 | EPA 7470 | 487496 |
| **35422648002** | **MW-15(23031)** | EPA 7470 | 487348 | EPA 7470 | 487496 |
| **35422648005** | **EQ Blank** | EPA 7470 | 487348 | EPA 7470 | 487496 |
| **35422648006** | **Dup #2** | EPA 7470 | 487348 | EPA 7470 | 487496 |
| **35422648001** | **MW-10R(4510)** | EPA 8260 | 486583 | | |
| **35422648002** | **MW-15(23031)** | EPA 8260 | 486583 | | |
| **35422648003** | **Trip Blank 8260 #4** | EPA 8260 | 486583 | | |
| **35422648005** | **EQ Blank** | EPA 8260 | 486583 | | |
| **35422648006** | **Dup #2** | EPA 8260 | 486583 | | |
| **35422648001** | **MW-10R(4510)** | SM 2540C | 484721 | | |
| **35422648002** | **MW-15(23031)** | SM 2540C | 484721 | | |
| **35422648005** | **EQ Blank** | SM 2540C | 484721 | | |
| **35422648006** | **Dup #2** | SM 2540C | 484721 | | |
| **35422648001** | **MW-10R(4510)** | EPA 300.0 | 486114 | | |
| **35422648001** | **MW-10R(4510)** | EPA 300.0 | 486528 | | |
| **35422648002** | **MW-15(23031)** | EPA 300.0 | 486114 | | |
| **35422648002** | **MW-15(23031)** | EPA 300.0 | 486528 | | |
| **35422648005** | **EQ Blank** | EPA 300.0 | 486114 | | |
| **35422648006** | **Dup #2** | EPA 300.0 | 486114 | | |
| **35422648006** | **Dup #2** | EPA 300.0 | 486528 | | |
| **35422648001** | **MW-10R(4510)** | EPA 350.1 | 483936 | | |
| **35422648002** | **MW-15(23031)** | EPA 350.1 | 484300 | | |
| **35422648005** | **EQ Blank** | EPA 350.1 | 483936 | | |
| **35422648006** | **Dup #2** | EPA 350.1 | 484297 | | |

## REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central Cty MW
Pace Project No.: 35422648

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **35422648001** | **MW-10R(4510)** | EPA 353.2 | 483946 | | |
| **35422648002** | **MW-15(23031)** | EPA 353.2 | 483945 | | |
| **35422648005** | **EQ Blank** | EPA 353.2 | 483946 | | |
| **35422648006** | **Dup #2** | EPA 353.2 | 483945 | | |



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Pace Analytical

# CHAIN-OF-CUSTODY / Analytical Request Doc

WO# : 35422648

35422648

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | Sarasota County | Report To: | Mr. Cesar Rodriguez | Attention: | |
| Address: | 1255 T. Mabry Carlton Parkway | Copy To: | | Company Name: | |
| Venice, FL 34292 | | | | Address: | |
| Email: | | Purchase Order #: | 180736 | Pace Quote: | |
| Phone: | 941-650-9834 Fax: | Project Name: | Central Cty MW wells Appdx 1 | Pace Project Manager: | martha.montero@pacelabs.com, |
| Requested Due Date: | | Project #: | | Pace Profile #: | 833 #1 |

| Regulatory Agency |
|---|
| |
| State / Location |
| FL |

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analyses Test Y/N | VOC by 8260 (HCL) | EDB and DBCP EPA 8011 (Unpreserved) | NH3 (H2SO4) | metals by 6010/6020/7470 Fe,Hg,Na,Mn (HNO3) | TDS NO3 Cl SO4 (Unpreserved) | Residual Chlorine (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ~~MW-1R (20585)~~ QE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 2 | ~~MW-8A (21453)~~ QE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 3 | ~~MW-9 (4509)~~ QE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 4 | MW-10R (4510) | WT | | 10/8/18 | 1255 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 5 | MW-15 (23031) | WT | | 10/8/18 | 1035 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 6 | ~~MW-16 (23032)~~ QE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 7 | ~~MW-17 (23033)~~ QE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 8 | ~~MW-18R (29095)~~ QE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 9 | ~~MW-19A(27140)~~ QE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 10 | ~~MW-20A (27141)~~ QE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 11 | EQ ~~field blank~~ SUB QE | WT | | 10/8/18 | 1335 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 12 | dup ~~#1~~ #2 QE | WT | | 10/8/18 | 1035 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |

Please use ADAPT, analyze all compounds on App 1

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Central county Monitoring wells Adapt 9/20 ~~Delta Rich~~ | Alison Eggleston | 10/8/18 | 1432 | Pace | 10-8-18 | 1432 | TEMP in C: 3 | | | |
| | Pace | 10-8-18 | 1816 | | 10/8/18 | 1816 | 1.3 | Y | N | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|
| PRINT Name of SAMPLER: | Alison Eggleston | | | | |
| SIGNATURE of SAMPLER: | DATE Signed: | | | | |

Pace Analytical

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | Sarasota County | Report To: | Mr. Cesar Rodriguez | Attention: | |
| Address: | 1255 T. Mabry Carlton Parkway | Copy To: | | Company Name: | |
| Venice, FL 34292 | | | | Address: | Regulatory Agency |
| Email: | | Purchase Order #: | 180736 | Pace Quote: | |
| Phone: 941-650-9834 | Fax: | Project Name: | Central Cty MW wells Appdx 1 | Pace Project Manager: | martha.montero@pacelabs.com, |
| Requested Due Date: | | Project #: | | Pace Profile #: | 833 #1 |
| | | | | | State / Location: FL |

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analyses Test Y/N | VOC by 8260 (HCL) | EDB and DBCP EPA 8011 (Unpreserved) | NH3 (H2SO4) | metals by 6010/6020/7470 Fe,Hg,Na,Mn (HNO3) | TDS NO3 Cl SO4 (Unpreserved) | Residual Chlorine (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | ~~MW-3 4503~~ | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 14 | ~~MW-5 4505~~ | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 15 | ~~Trip Blank 8260 #1~~ | WT | | | | | | | | | | | | | | | | | 2 | | | | | | |
| 16 | ~~Trip Blank 8260 #2~~ | WT | | | | | | | | | | | | | | | | | 2 | | | | | | |
| 17 | ~~Trip Blank 8260 #3~~ | WT | | | | | | | | | | | | | | | | | 2 | | | | | | |
| 18 | Trip Blank 8260 #4 | WT | | 10/8/18 | | | | | | | | | | | | | | | 2 | | | | | | |
| 19 | ~~Trip Blank 8011 #1~~ | WT | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 20 | ~~Trip Blank 8011 #2~~ | WT | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 21 | ~~Trip Blank 8011 #3~~ | WT | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 22 | Trip Blank 8011 ~~#3~~ #4 | WT | | 10/8/18 | | | | | | | | | | | | | | | | 2 | | | | | |
| 23 | | WT | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | WT | | | | | | | | | | | | | | | | | | | | | | | |

Please use ADAPT, analyze all compounds on App 1

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Central county Monitoring wells Adapt | Alison Eggleston | 10/8/18 | 1432 | Pace | 10-8-18 | 1432 | TJ3 | | | |
| | Pace | 10-8-18 | 1816 | Pace | 10/8/18 | 1816 | 1.3 | Y | N | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alison Eggleston

SIGNATURE of SAMPLER: DATE Signed:

| TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| | | | |

| Pace Analytical Florida Laboratory | Document Name: Sample Condition Upon Receipt Form | Document Revised: May 30, 2018 |
|---|---|---|
| | Document No.: F-FL-C-007 rev. 13 | Issuing Authority: Pace Florida Quality Office |

## Sample Condition Upon Receipt Form (SCUR)

**Project #** WO# : 35422648

**Project Manager:** PM: MIM **Due Date:** 10/22/18

**Client:** CLIENT: SARCOU

**Date and Initials of person:**
Examining contents: MVL
Label: 10/18/18
Deliver:
pH:

Thermometer Used: T-203 Date: 10/18/18 Time: 1820 Initials: MVL

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

| | | | | |
|---|---|---|---|---|
| **Cooler #1 Temp.°C** | 1.3 (Visual) | 0.0 (Correction Factor) | 1.3 (Actual) | ☒ Samples on ice, cooling process has begun |
| **Cooler #2 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| **Cooler #3 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| **Cooler #4 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| **Cooler #5 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| **Cooler #6 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

**Shipping Method:** ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☒ Ground ☐ International Priority ☐ Other

**Billing:** ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

**Tracking #**

**Custody Seal on Cooler/Box Present:** ☐ Yes ☒ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

**Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

**Samples shorted to lab (If Yes, complete)** Shorted Date: Shorted Time: Qty:

| | | Comments: |
|---|---|---|
| Chain of Custody Present | ☒ Yes ☐ No ☐ N/A | |
| Chain of Custody Filled Out | ☒ Yes ☐ No ☐ N/A | |
| Relinquished Signature & Sampler Name COC | ☒ Yes ☐ No ☐ N/A | |
| Samples Arrived within Hold Time | ☒ Yes ☐ No ☐ N/A | |
| Rush TAT requested on COC | ☐ Yes ☒ No ☐ N/A | |
| Sufficient Volume | ☒ Yes ☐ No ☐ N/A | |
| Correct Containers Used | ☒ Yes ☐ No ☐ N/A | |
| Containers Intact | ☒ Yes ☐ No ☐ N/A | |
| Sample Labels match COC (sample IDs & date/time of collection) | ☒ Yes ☐ No ☐ N/A | |
| All containers needing acid/base preservation have been checked. | ☒ Yes ☐ No ☐ N/A | Preservation Information: |
| All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates | ☒ Yes ☐ No ☐ N/A | Preservative: Lot #/Trace #: Date: Time: Initials: |
| Headspace in VOA Vials? ( >6mm): | ☐ Yes ☒ No ☐ N/A | |
| Trip Blank Present: | ☒ Yes ☐ No ☐ N/A | |

**Client Notification/ Resolution:**
Person Contacted: Date/Time:

**Comments/ Resolution (use back for additional comments):**

Project Manager Review: Date:

**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

**REVIEWED**
*By Cesar Rodriguez-Palacios at 4:08 pm, Dec 03, 2018*

October 18, 2018

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

RE: Project: Central Cty
Pace Project No.: 35421363

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County



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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

# CERTIFICATIONS

Project: Central Cty
Pace Project No.: 35421363

**Ormond Beach Certification IDs**

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

**Tampa Certification IDs**

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## SAMPLE SUMMARY

Project: Central Cty
Pace Project No.: 35421363

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **35421363001** | **MW-18R (29095)** | Water | 10/02/18 13:30 | 10/02/18 15:40 |
| **35421363002** | **MW-19A (27140)** | Water | 10/02/18 12:16 | 10/02/18 15:40 |
| **35421363003** | **MW-20A (27141)** | Water | 10/02/18 10:25 | 10/02/18 15:40 |
| **35421363004** | **Equip Blank #1** | Water | 10/02/18 09:20 | 10/02/18 15:40 |
| **35421363005** | **dup #1** | Water | 10/02/18 13:30 | 10/02/18 15:40 |
| **35421363006** | **Trip Blank 8260 #3** | Water | 10/02/18 09:20 | 10/02/18 15:40 |
| **35421363007** | **Trip Blank 8011 #3** | Water | 10/02/18 09:20 | 10/02/18 15:40 |



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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## SAMPLE ANALYTE COUNT

Project: Central Cty
Pace Project No.: 35421363

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **35421363001** | **MW-18R (29095)** | EPA 8011 | LJM | 2 | PASI-O |
| | | EPA 6010 | SC1 | 15 | PASI-O |
| | | EPA 6020 | FDV, KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | BTN | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | CMB | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | AMP | 1 | PASI-O |
| **35421363002** | **MW-19A (27140)** | EPA 8011 | LJM | 2 | PASI-O |
| | | EPA 6010 | SC1 | 15 | PASI-O |
| | | EPA 6020 | FDV, KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | BTN | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | CMB | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | AMP | 1 | PASI-O |
| **35421363003** | **MW-20A (27141)** | EPA 8011 | MMB | 2 | PASI-O |
| | | EPA 6010 | SC1 | 15 | PASI-O |
| | | EPA 6020 | FDV, KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | BTN | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | CMB | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | AMP | 1 | PASI-O |
| **35421363004** | **Equip Blank #1** | EPA 8011 | MMB | 2 | PASI-O |
| | | EPA 6010 | SC1 | 15 | PASI-O |
| | | EPA 6020 | FDV, KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | BTN | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | CMB | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | JWH | 1 | PASI-O |
| **35421363005** | **dup #1** | EPA 8011 | MMB | 2 | PASI-O |



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## SAMPLE ANALYTE COUNT

Project: Central Cty
Pace Project No.: 35421363

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | EPA 6010 | SC1 | 15 | PASI-O |
| | | EPA 6020 | FDV, KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | BTN | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | CMB | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | AMP | 1 | PASI-O |
| **35421363006** | **Trip Blank 8260 #3** | EPA 8260 | BTN | 48 | PASI-O |
| **35421363007** | **Trip Blank 8011 #3** | EPA 8011 | MMB | 2 | PASI-O |



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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: MW-18R (29095)** **Lab ID: 35421363001** Collected: 10/02/18 13:30 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.01** | Std. Units | | | 1 | | 10/02/18 13:30 | | |
| Field Temperature | **30.35** | deg C | | | 1 | | 10/02/18 13:30 | | |
| Field Specific Conductance | **613** | umhos/cm | | | 1 | | 10/02/18 13:30 | | |
| Oxygen, Dissolved | **0.07** | mg/L | | | 1 | | 10/02/18 13:30 | 7782-44-7 | |
| Turbidity | **1.15** | NTU | | | 1 | | 10/02/18 13:30 | | |
| Water Level(NGVD) | **18.85** | feet | | | 1 | | 10/02/18 13:30 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 10/04/18 01:32 | 10/04/18 16:43 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0073 U** | ug/L | 0.0097 | 0.0073 | 1 | 10/04/18 01:32 | 10/04/18 16:43 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **22.8** | ug/L | 10.0 | 0.84 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7440-43-9 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7440-47-3 | |
| Cobalt | **0.96 U** | ug/L | 10.0 | 0.96 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7440-50-8 | |
| Iron | **7060** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7439-92-1 | |
| Manganese | **19.3** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7439-96-5 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7440-22-4 | |
| Sodium | **4.6** | mg/L | 2.0 | 0.27 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7440-23-5 | |
| Vanadium | **4.3 I** | ug/L | 10.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/05/18 01:39 | 10/05/18 20:53 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:15 | 7440-36-0 | |
| Arsenic | **9.6** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:15 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 18:24 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/08/18 13:24 | 10/09/18 17:26 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/09/18 13:31 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 13:31 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/09/18 13:31 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/09/18 13:31 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/09/18 13:31 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 13:31 | 78-93-3 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: MW-18R (29095)** **Lab ID: 35421363001** Collected: 10/02/18 13:30 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 13:31 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/09/18 13:31 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/09/18 13:31 | 75-00-3 | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/09/18 13:31 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/09/18 13:31 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/09/18 13:31 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 13:31 | 110-57-6 | J(L1) |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/09/18 13:31 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/09/18 13:31 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 13:31 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/09/18 13:31 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/09/18 13:31 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 13:31 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/09/18 13:31 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/09/18 13:31 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/09/18 13:31 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:31 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/09/18 13:31 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | | 1 | | 10/09/18 13:31 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 106 | % | 70-130 | | 1 | | 10/09/18 13:31 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 10/09/18 13:31 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **325** | mg/L | 5.0 | 5.0 | 1 | | 10/03/18 14:26 | | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: MW-18R (29095)** **Lab ID: 35421363001** Collected: 10/02/18 13:30 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **3.8 I** | mg/L | 5.0 | 2.5 | 1 | | 10/10/18 20:21 | 16887-00-6 | |
| Sulfate | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/10/18 20:21 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **4.8** | mg/L | 0.050 | 0.035 | 1 | | 10/03/18 09:20 | 7664-41-7 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 10/03/18 19:06 | 14797-55-8 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: MW-19A (27140)** **Lab ID: 35421363002** Collected: 10/02/18 12:16 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.65** | Std. Units | | | 1 | | 10/02/18 12:16 | | |
| Field Temperature | **29.66** | deg C | | | 1 | | 10/02/18 12:16 | | |
| Field Specific Conductance | **667** | umhos/cm | | | 1 | | 10/02/18 12:16 | | |
| Oxygen, Dissolved | **0.11** | mg/L | | | 1 | | 10/02/18 12:16 | 7782-44-7 | |
| Turbidity | **0.42** | NTU | | | 1 | | 10/02/18 12:16 | | |
| Water Level(NGVD) | **19.69** | feet | | | 1 | | 10/02/18 12:16 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 10/04/18 01:32 | 10/04/18 16:59 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0072 U** | ug/L | 0.0096 | 0.0072 | 1 | 10/04/18 01:32 | 10/04/18 16:59 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **72.3** | ug/L | 10.0 | 0.84 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7440-43-9 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7440-47-3 | |
| Cobalt | **0.96 U** | ug/L | 10.0 | 0.96 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7440-50-8 | |
| Iron | **226** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7439-92-1 | |
| Manganese | **2.4 I** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7439-96-5 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7440-22-4 | |
| Sodium | **5.9** | mg/L | 2.0 | 0.27 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7440-23-5 | |
| Vanadium | **3.5 I** | ug/L | 10.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/05/18 01:39 | 10/05/18 20:56 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:20 | 7440-36-0 | |
| Arsenic | **4.2** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:20 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 18:31 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/08/18 13:24 | 10/09/18 17:28 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/09/18 14:20 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 14:20 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/09/18 14:20 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/09/18 14:20 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/09/18 14:20 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 14:20 | 78-93-3 | |

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(386)672-5668

## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: MW-19A (27140)** **Lab ID: 35421363002** Collected: 10/02/18 12:16 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 14:20 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/09/18 14:20 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/09/18 14:20 | 75-00-3 | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/09/18 14:20 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/09/18 14:20 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/09/18 14:20 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 14:20 | 110-57-6 | J(L1) |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/09/18 14:20 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/09/18 14:20 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 14:20 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/09/18 14:20 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/09/18 14:20 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 14:20 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/09/18 14:20 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/09/18 14:20 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/09/18 14:20 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 14:20 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/09/18 14:20 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | | 1 | | 10/09/18 14:20 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 107 | % | 70-130 | | 1 | | 10/09/18 14:20 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 70-130 | | 1 | | 10/09/18 14:20 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **373** | mg/L | 5.0 | 5.0 | 1 | | 10/03/18 14:26 | | |

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(386)672-5668

## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: MW-19A (27140)** **Lab ID: 35421363002** Collected: 10/02/18 12:16 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **7.8** | mg/L | 5.0 | 2.5 | 1 | | 10/10/18 18:24 | 16887-00-6 | |
| Sulfate | **17.9** | mg/L | 5.0 | 2.5 | 1 | | 10/10/18 18:24 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.38** | mg/L | 0.050 | 0.035 | 1 | | 10/03/18 09:22 | 7664-41-7 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 10/03/18 19:07 | 14797-55-8 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: MW-20A (27141)** **Lab ID: 35421363003** Collected: 10/02/18 10:25 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.62** | Std. Units | | | 1 | | 10/02/18 10:25 | | |
| Field Temperature | **28.76** | deg C | | | 1 | | 10/02/18 10:25 | | |
| Field Specific Conductance | **563** | umhos/cm | | | 1 | | 10/02/18 10:25 | | |
| Oxygen, Dissolved | **0.10** | mg/L | | | 1 | | 10/02/18 10:25 | 7782-44-7 | |
| Turbidity | **0.75** | NTU | | | 1 | | 10/02/18 10:25 | | |
| Water Level(NGVD) | **18.62** | feet | | | 1 | | 10/02/18 10:25 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 10/08/18 08:58 | 10/08/18 20:24 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0073 U** | ug/L | 0.0097 | 0.0073 | 1 | 10/08/18 08:58 | 10/08/18 20:24 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **33.5** | ug/L | 10.0 | 0.84 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7440-43-9 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7440-47-3 | |
| Cobalt | **0.96 U** | ug/L | 10.0 | 0.96 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7440-50-8 | |
| Iron | **3450** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7439-92-1 | |
| Manganese | **7.4** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7439-96-5 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7440-22-4 | |
| Sodium | **2.7** | mg/L | 2.0 | 0.27 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7440-23-5 | |
| Vanadium | **3.3 I** | ug/L | 10.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/05/18 01:39 | 10/05/18 20:59 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:22 | 7440-36-0 | |
| Arsenic | **9.0** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:22 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 18:36 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/08/18 13:24 | 10/09/18 17:30 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/09/18 15:09 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 15:09 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/09/18 15:09 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/09/18 15:09 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/09/18 15:09 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 15:09 | 78-93-3 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: MW-20A (27141)** **Lab ID: 35421363003** Collected: 10/02/18 10:25 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 15:09 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/09/18 15:09 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/09/18 15:09 | 75-00-3 | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/09/18 15:09 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/09/18 15:09 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/09/18 15:09 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 15:09 | 110-57-6 | J(L1) |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/09/18 15:09 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/09/18 15:09 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 15:09 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/09/18 15:09 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/09/18 15:09 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 15:09 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/09/18 15:09 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/09/18 15:09 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/09/18 15:09 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:09 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/09/18 15:09 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | | 1 | | 10/09/18 15:09 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 108 | % | 70-130 | | 1 | | 10/09/18 15:09 | 17060-07-0 | |
| Toluene-d8 (S) | 104 | % | 70-130 | | 1 | | 10/09/18 15:09 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **309** | mg/L | 5.0 | 5.0 | 1 | | 10/03/18 14:26 | | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: MW-20A (27141)** **Lab ID: 35421363003** Collected: 10/02/18 10:25 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/10/18 18:05 | 16887-00-6 | |
| Sulfate | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/10/18 18:05 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.42** | mg/L | 0.050 | 0.035 | 1 | | 10/03/18 09:28 | 7664-41-7 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 10/03/18 19:09 | 14797-55-8 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: Equip Blank #1** **Lab ID: 35421363004** Collected: 10/02/18 09:20 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.020 | 0.0062 | 1 | 10/08/18 08:58 | 10/08/18 20:39 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0073 U** | ug/L | 0.0098 | 0.0073 | 1 | 10/08/18 08:58 | 10/08/18 20:39 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **0.84 U** | ug/L | 10.0 | 0.84 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7440-43-9 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7440-47-3 | |
| Cobalt | **0.96 U** | ug/L | 10.0 | 0.96 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7440-50-8 | |
| Iron | **9.2 U** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7439-92-1 | |
| Manganese | **0.42 U** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7439-96-5 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7440-22-4 | |
| Sodium | **0.27 U** | mg/L | 2.0 | 0.27 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7440-23-5 | |
| Vanadium | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/05/18 01:39 | 10/05/18 21:02 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:25 | 7440-36-0 | |
| Arsenic | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:25 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 18:37 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/11/18 18:52 | 10/15/18 15:05 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **12.4 I** | ug/L | 20.0 | 10.0 | 1 | | 10/09/18 12:42 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 12:42 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/09/18 12:42 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/09/18 12:42 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/09/18 12:42 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 12:42 | 78-93-3 | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 12:42 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/09/18 12:42 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/09/18 12:42 | 75-00-3 | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/09/18 12:42 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/09/18 12:42 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/09/18 12:42 | 74-95-3 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: Equip Blank #1** **Lab ID: 35421363004** Collected: 10/02/18 09:20 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 12:42 | 110-57-6 | J(L1) |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/09/18 12:42 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/09/18 12:42 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 12:42 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/09/18 12:42 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/09/18 12:42 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 12:42 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/09/18 12:42 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/09/18 12:42 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/09/18 12:42 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 12:42 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/09/18 12:42 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 1 | | 10/09/18 12:42 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 107 | % | 70-130 | | 1 | | 10/09/18 12:42 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 10/09/18 12:42 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **5.0 U** | mg/L | 5.0 | 5.0 | 1 | | 10/04/18 14:51 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/10/18 20:41 | 16887-00-6 | |
| Sulfate | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/10/18 20:41 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.035 U** | mg/L | 0.050 | 0.035 | 1 | | 10/03/18 09:29 | 7664-41-7 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: Equip Blank #1** **Lab ID: 35421363004** Collected: 10/02/18 09:20 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 10/03/18 10:01 | 14797-55-8 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: dup #1** **Lab ID: 35421363005** Collected: 10/02/18 13:30 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.01** | Std. Units | | | 1 | | 10/02/18 13:30 | | |
| Field Temperature | **30.35** | deg C | | | 1 | | 10/02/18 13:30 | | |
| Field Specific Conductance | **613** | umhos/cm | | | 1 | | 10/02/18 13:30 | | |
| Oxygen, Dissolved | **0.07** | mg/L | | | 1 | | 10/02/18 13:30 | 7782-44-7 | |
| Turbidity | **1.15** | NTU | | | 1 | | 10/02/18 13:30 | | |
| Water Level(NGVD) | **18.85** | feet | | | 1 | | 10/02/18 13:30 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0063 U** | ug/L | 0.020 | 0.0063 | 1 | 10/08/18 08:58 | 10/08/18 20:54 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0073 U** | ug/L | 0.0098 | 0.0073 | 1 | 10/08/18 08:58 | 10/08/18 20:54 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **22.7** | ug/L | 10.0 | 0.84 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7440-43-9 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7440-47-3 | |
| Cobalt | **1.4 I** | ug/L | 10.0 | 0.96 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7440-50-8 | |
| Iron | **7430** | ug/L | 40.0 | 9.2 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7439-92-1 | |
| Manganese | **18.9** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7439-96-5 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7440-22-4 | |
| Sodium | **4.6** | mg/L | 2.0 | 0.27 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7440-23-5 | |
| Vanadium | **4.2 I** | ug/L | 10.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/05/18 01:39 | 10/05/18 21:05 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:51 | 7440-36-0 | |
| Arsenic | **9.9** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 19:51 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 18:39 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/11/18 18:52 | 10/15/18 15:11 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/09/18 15:34 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 15:34 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/09/18 15:34 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/09/18 15:34 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/09/18 15:34 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 15:34 | 78-93-3 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: dup #1** **Lab ID: 35421363005** Collected: 10/02/18 13:30 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 15:34 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/09/18 15:34 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/09/18 15:34 | 75-00-3 | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/09/18 15:34 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/09/18 15:34 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/09/18 15:34 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 15:34 | 110-57-6 | J(L1) |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/09/18 15:34 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/09/18 15:34 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 15:34 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/09/18 15:34 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/09/18 15:34 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 15:34 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/09/18 15:34 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/09/18 15:34 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/09/18 15:34 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 15:34 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/09/18 15:34 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | | 1 | | 10/09/18 15:34 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 109 | % | 70-130 | | 1 | | 10/09/18 15:34 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 70-130 | | 1 | | 10/09/18 15:34 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **341** | mg/L | 5.0 | 5.0 | 1 | | 10/04/18 14:52 | | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: dup #1** **Lab ID: 35421363005** Collected: 10/02/18 13:30 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **3.8 I** | mg/L | 5.0 | 2.5 | 1 | | 10/10/18 18:44 | 16887-00-6 | |
| Sulfate | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/10/18 18:44 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **5.0** | mg/L | 0.050 | 0.035 | 1 | | 10/03/18 09:31 | 7664-41-7 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 10/03/18 19:10 | 14797-55-8 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: Trip Blank 8260 #3** **Lab ID: 35421363006** Collected: 10/02/18 09:20 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/09/18 13:06 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 13:06 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/09/18 13:06 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/09/18 13:06 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/09/18 13:06 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 13:06 | 78-93-3 | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 13:06 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/09/18 13:06 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/09/18 13:06 | 75-00-3 | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/09/18 13:06 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/09/18 13:06 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/09/18 13:06 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 13:06 | 110-57-6 | J(L1) |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/09/18 13:06 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/09/18 13:06 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 13:06 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/09/18 13:06 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/09/18 13:06 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/09/18 13:06 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/09/18 13:06 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/09/18 13:06 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/09/18 13:06 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/09/18 13:06 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/09/18 13:06 | 1330-20-7 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: Trip Blank 8260 #3** **Lab ID: 35421363006** Collected: 10/02/18 09:20 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 1 | | 10/09/18 13:06 | 460-00-4 | J(HS) |
| 1,2-Dichloroethane-d4 (S) | 104 | % | 70-130 | | 1 | | 10/09/18 13:06 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 10/09/18 13:06 | 2037-26-5 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35421363

**Sample: Trip Blank 8011 #3** **Lab ID: 35421363007** Collected: 10/02/18 09:20 Received: 10/02/18 15:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 10/08/18 08:58 | 10/08/18 21:24 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0073 U** | ug/L | 0.0097 | 0.0073 | 1 | 10/08/18 08:58 | 10/08/18 21:24 | 106-93-4 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 483723 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35421363001, 35421363002, 35421363003

METHOD BLANK: 2617311 Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 0.10 U | 0.20 | 0.10 | 10/09/18 16:56 | |

LABORATORY CONTROL SAMPLE: 2617312

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 2 | 2.1 | 106 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2617313 2617314

| Parameter | Units | 35419216001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 0.10 U | 2 | 2 | 2.1 | 2.1 | 104 | 104 | 75-125 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 484941 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35421363004, 35421363005

METHOD BLANK: 2623974 Matrix: Water
Associated Lab Samples: 35421363004, 35421363005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 0.10 U | 0.20 | 0.10 | 10/15/18 15:01 | |

LABORATORY CONTROL SAMPLE: 2623975

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 2 | 2.0 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2623976 2623977

| Parameter | Units | 35421363004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 0.10 U | 2 | 2 | 1.8 | 2.0 | 90 | 100 | 75-125 | 10 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 483216 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

METHOD BLANK: 2614848 Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Barium | ug/L | 0.84 U | 10.0 | 0.84 | 10/05/18 20:48 | |
| Beryllium | ug/L | 1.6 U | 4.0 | 1.6 | 10/05/18 20:48 | |
| Cadmium | ug/L | 0.33 U | 1.0 | 0.33 | 10/05/18 20:48 | |
| Chromium | ug/L | 1.7 U | 5.0 | 1.7 | 10/05/18 20:48 | |
| Cobalt | ug/L | 0.96 U | 10.0 | 0.96 | 10/05/18 20:48 | |
| Copper | ug/L | 2.6 U | 5.0 | 2.6 | 10/05/18 20:48 | |
| Iron | ug/L | 9.2 U | 40.0 | 9.2 | 10/05/18 20:48 | |
| Lead | ug/L | 4.6 U | 10.0 | 4.6 | 10/05/18 20:48 | |
| Manganese | ug/L | 0.42 U | 5.0 | 0.42 | 10/05/18 20:48 | |
| Nickel | ug/L | 2.1 U | 5.0 | 2.1 | 10/05/18 20:48 | |
| Selenium | ug/L | 8.5 U | 15.0 | 8.5 | 10/05/18 20:48 | |
| Silver | ug/L | 1.0 U | 5.0 | 1.0 | 10/05/18 20:48 | |
| Sodium | mg/L | 0.27 U | 2.0 | 0.27 | 10/05/18 20:48 | |
| Vanadium | ug/L | 1.0 U | 10.0 | 1.0 | 10/05/18 20:48 | |
| Zinc | ug/L | 11.0 U | 20.0 | 11.0 | 10/05/18 20:48 | |

LABORATORY CONTROL SAMPLE: 2614849

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Barium | ug/L | 250 | 257 | 103 | 80-120 | |
| Beryllium | ug/L | 25 | 25.7 | 103 | 80-120 | |
| Cadmium | ug/L | 25 | 26.2 | 105 | 80-120 | |
| Chromium | ug/L | 250 | 260 | 104 | 80-120 | |
| Cobalt | ug/L | 250 | 262 | 105 | 80-120 | |
| Copper | ug/L | 250 | 254 | 102 | 80-120 | |
| Iron | ug/L | 2500 | 2600 | 104 | 80-120 | |
| Lead | ug/L | 250 | 259 | 104 | 80-120 | |
| Manganese | ug/L | 250 | 264 | 106 | 80-120 | |
| Nickel | ug/L | 250 | 260 | 104 | 80-120 | |
| Selenium | ug/L | 250 | 265 | 106 | 80-120 | |
| Silver | ug/L | 25 | 26.1 | 104 | 80-120 | |
| Sodium | mg/L | 12.5 | 12.6 | 101 | 80-120 | |
| Vanadium | ug/L | 250 | 259 | 103 | 80-120 | |
| Zinc | ug/L | 1250 | 1310 | 105 | 80-120 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614851 2614852

| Parameter | Units | 35422069002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | ug/L | 95.6 | 250 | 250 | 348 | 351 | 101 | 102 | 75-125 | 1 | 20 | |
| Beryllium | ug/L | 1.6 U | 25 | 25 | 21.0 | 23.5 | 84 | 94 | 75-125 | 11 | 20 | |
| Cadmium | ug/L | 0.33 U | 25 | 25 | 25.0 | 24.9 | 99 | 99 | 75-125 | 0 | 20 | |
| Chromium | ug/L | 1.8 I | 250 | 250 | 256 | 245 | 102 | 97 | 75-125 | 4 | 20 | |
| Cobalt | ug/L | 1.8 I | 250 | 250 | 261 | 260 | 104 | 103 | 75-125 | 0 | 20 | |
| Copper | ug/L | 2.6 U | 250 | 250 | 259 | 261 | 104 | 105 | 75-125 | 1 | 20 | |
| Iron | ug/L | 88400 | 2500 | 2500 | 87100 | 85300 | -51 | -123 | 75-125 | 2 | 20 | J(M1), L |
| Lead | ug/L | 4.6 U | 250 | 250 | 249 | 257 | 99 | 103 | 75-125 | 3 | 20 | |
| Manganese | ug/L | 10.5 | 250 | 250 | 267 | 245 | 103 | 94 | 75-125 | 9 | 20 | |
| Nickel | ug/L | 2.7 I | 250 | 250 | 255 | 260 | 101 | 103 | 75-125 | 2 | 20 | |
| Selenium | ug/L | 8.5 U | 250 | 250 | 254 | 255 | 102 | 102 | 75-125 | 0 | 20 | |
| Silver | ug/L | 1.0 U | 25 | 25 | 25.5 | 24.7 | 102 | 99 | 75-125 | 3 | 20 | |
| Sodium | mg/L | 60.8 | 12.5 | 12.5 | 73.5 | 76.3 | 102 | 123 | 75-125 | 4 | 20 | |
| Vanadium | ug/L | 5.8 I | 250 | 250 | 264 | 252 | 103 | 98 | 75-125 | 5 | 20 | |
| Zinc | ug/L | 11.0 U | 1250 | 1250 | 1240 | 1320 | 98 | 105 | 75-125 | 6 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 483215 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

METHOD BLANK: 2614821 Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 0.50 U | 1.0 | 0.50 | 10/06/18 19:13 | |
| Arsenic | ug/L | 0.50 U | 1.0 | 0.50 | 10/06/18 19:13 | |
| Thallium | ug/L | 0.50 U | 1.0 | 0.50 | 10/05/18 18:21 | |

LABORATORY CONTROL SAMPLE: 2614822

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 50 | 48.5 | 97 | 80-120 | |
| Arsenic | ug/L | 50 | 48.0 | 96 | 80-120 | |
| Thallium | ug/L | 50 | 49.1 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614823 2614824

| Parameter | Units | 35421363001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ug/L | 0.50 U | 50 | 50 | 50.8 | 54.0 | 101 | 108 | 75-125 | 6 | 20 | |
| Arsenic | ug/L | 9.6 | 50 | 50 | 60.1 | 64.3 | 101 | 109 | 75-125 | 7 | 20 | |
| Thallium | ug/L | 0.50 U | 50 | 50 | 51.5 | 51.3 | 103 | 103 | 75-125 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 484082 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005, 35421363006

METHOD BLANK: 2619036 Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005, 35421363006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 0.50 | 0.12 | 10/09/18 11:31 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 2.0 | 0.59 | 10/09/18 11:31 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 10.0 | 5.0 | 10/09/18 11:31 | |
| 2-Hexanone | ug/L | 5.0 U | 10.0 | 5.0 | 10/09/18 11:31 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 10.0 | 5.0 | 10/09/18 11:31 | |
| Acetone | ug/L | 10.0 U | 20.0 | 10.0 | 10/09/18 11:31 | |
| Acrylonitrile | ug/L | 5.0 U | 10.0 | 5.0 | 10/09/18 11:31 | |
| Benzene | ug/L | 0.10 U | 1.0 | 0.10 | 10/09/18 11:31 | |
| Bromochloromethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| Bromodichloromethane | ug/L | 0.27 U | 0.60 | 0.27 | 10/09/18 11:31 | |
| Bromoform | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| Bromomethane | ug/L | 0.50 U | 5.0 | 0.50 | 10/09/18 11:31 | |
| Carbon disulfide | ug/L | 5.0 U | 10.0 | 5.0 | 10/09/18 11:31 | |
| Carbon tetrachloride | ug/L | 0.50 U | 3.0 | 0.50 | 10/09/18 11:31 | |
| Chlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| Chloroethane | ug/L | 0.50 U | 10.0 | 0.50 | 10/09/18 11:31 | |
| Chloroform | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| Chloromethane | ug/L | 0.62 U | 1.0 | 0.62 | 10/09/18 11:31 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 0.50 | 0.25 | 10/09/18 11:31 | |
| Dibromochloromethane | ug/L | 0.26 U | 2.0 | 0.26 | 10/09/18 11:31 | |
| Dibromomethane | ug/L | 0.50 U | 2.0 | 0.50 | 10/09/18 11:31 | |
| Ethylbenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| Iodomethane | ug/L | 0.50 U | 10.0 | 0.50 | 10/09/18 11:31 | |
| Methylene Chloride | ug/L | 2.5 U | 5.0 | 2.5 | 10/09/18 11:31 | |
| Styrene | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| Tetrachloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| Toluene | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 0.50 | 0.25 | 10/09/18 11:31 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 10.0 | 5.0 | 10/09/18 11:31 | |
| Trichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |

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(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

METHOD BLANK: 2619036 Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005, 35421363006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| Vinyl acetate | ug/L | 1.0 U | 10.0 | 1.0 | 10/09/18 11:31 | |
| Vinyl chloride | ug/L | 0.50 U | 1.0 | 0.50 | 10/09/18 11:31 | |
| Xylene (Total) | ug/L | 1.5 U | 3.0 | 1.5 | 10/09/18 11:31 | |
| 1,2-Dichloroethane-d4 (S) | % | 101 | 70-130 | | 10/09/18 11:31 | |
| 4-Bromofluorobenzene (S) | % | 96 | 70-130 | | 10/09/18 11:31 | |
| Toluene-d8 (S) | % | 101 | 70-130 | | 10/09/18 11:31 | |

LABORATORY CONTROL SAMPLE: 2619037

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 19.4 | 97 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 20.6 | 103 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 24.6 | 123 | 68-125 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 22.8 | 114 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 20 | 21.1 | 106 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 20 | 18.1 | 91 | 66-133 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 22.4 | 112 | 62-127 | |
| 1,2-Dichlorobenzene | ug/L | 20 | 22.6 | 113 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 20 | 19.5 | 98 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 20 | 22.6 | 113 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 22.3 | 111 | 70-130 | |
| 2-Butanone (MEK) | ug/L | 40 | 43.2 | 108 | 47-143 | |
| 2-Hexanone | ug/L | 40 | 39.1 | 98 | 48-145 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 40 | 40.7 | 102 | 57-132 | |
| Acetone | ug/L | 40 | 40.8 | 102 | 46-148 | |
| Acrylonitrile | ug/L | 200 | 239 | 119 | 60-143 | |
| Benzene | ug/L | 20 | 21.3 | 106 | 70-130 | |
| Bromochloromethane | ug/L | 20 | 20.2 | 101 | 70-130 | |
| Bromodichloromethane | ug/L | 20 | 22.0 | 110 | 70-130 | |
| Bromoform | ug/L | 20 | 18.3 | 91 | 49-126 | |
| Bromomethane | ug/L | 20 | 20.0 | 100 | 10-165 | |
| Carbon disulfide | ug/L | 20 | 17.5 | 87 | 60-141 | |
| Carbon tetrachloride | ug/L | 20 | 16.7 | 84 | 63-126 | |
| Chlorobenzene | ug/L | 20 | 21.9 | 110 | 70-130 | |
| Chloroethane | ug/L | 20 | 19.5 | 97 | 71-142 | |
| Chloroform | ug/L | 20 | 21.5 | 108 | 70-130 | |
| Chloromethane | ug/L | 20 | 18.2 | 91 | 40-140 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 20.9 | 105 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 20.1 | 100 | 70-130 | |
| Dibromochloromethane | ug/L | 20 | 18.4 | 92 | 62-118 | |
| Dibromomethane | ug/L | 20 | 20.9 | 105 | 70-130 | |
| Ethylbenzene | ug/L | 20 | 21.9 | 109 | 70-130 | |
| Iodomethane | ug/L | 40 | 30.6 | 77 | 10-164 | |

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(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

LABORATORY CONTROL SAMPLE: 2619037

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Methylene Chloride | ug/L | 20 | 21.1 | 105 | 65-136 | |
| Styrene | ug/L | 20 | 20.0 | 100 | 70-130 | |
| Tetrachloroethene | ug/L | 20 | 21.6 | 108 | 64-134 | |
| Toluene | ug/L | 20 | 22.0 | 110 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 20 | 19.7 | 99 | 68-127 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 20.5 | 103 | 65-121 | |
| trans-1,4-Dichloro-2-butene | ug/L | 20 | 26.4 | 132 | 42-129 | J(L1) |
| Trichloroethene | ug/L | 20 | 20.0 | 100 | 70-130 | |
| Trichlorofluoromethane | ug/L | 20 | 18.1 | 90 | 65-135 | |
| Vinyl acetate | ug/L | 20 | 19.3 | 97 | 60-144 | |
| Vinyl chloride | ug/L | 20 | 18.9 | 94 | 68-131 | |
| Xylene (Total) | ug/L | 60 | 65.2 | 109 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 94 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 101 | 70-130 | |
| Toluene-d8 (S) | % | | | 101 | 70-130 | |

MATRIX SPIKE SAMPLE: 2619039

| Parameter | Units | 35421363002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 20 | 17.9 | 90 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 20 | 19.3 | 96 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 20 | 18.5 | 92 | 68-125 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 20 | 20.3 | 102 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 20 | 18.2 | 91 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 20 | 17.0 | 85 | 66-133 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 20 | 19.3 | 96 | 62-127 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 20 | 18.9 | 95 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 20 | 16.6 | 83 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 20 | 19.0 | 95 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 20 | 19.0 | 95 | 70-130 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 40 | 36.4 | 91 | 47-143 | |
| 2-Hexanone | ug/L | 5.0 U | 40 | 35.3 | 88 | 48-145 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 40 | 35.2 | 88 | 57-132 | |
| Acetone | ug/L | 10.0 U | 40 | 34.8 | 87 | 46-148 | |
| Acrylonitrile | ug/L | 5.0 U | 200 | 199 | 100 | 60-143 | |
| Benzene | ug/L | 0.10 U | 20 | 18.5 | 93 | 70-130 | |
| Bromochloromethane | ug/L | 0.50 U | 20 | 19.4 | 97 | 70-130 | |
| Bromodichloromethane | ug/L | 0.27 U | 20 | 18.0 | 90 | 70-130 | |
| Bromoform | ug/L | 0.50 U | 20 | 15.8 | 79 | 49-126 | |
| Bromomethane | ug/L | 0.50 U | 20 | 13.4 | 67 | 10-165 | |
| Carbon disulfide | ug/L | 5.0 U | 20 | 16.2 | 81 | 60-141 | |
| Carbon tetrachloride | ug/L | 0.50 U | 20 | 15.7 | 78 | 63-126 | |
| Chlorobenzene | ug/L | 0.50 U | 20 | 20.1 | 101 | 70-130 | |
| Chloroethane | ug/L | 0.50 U | 20 | 18.8 | 94 | 71-142 | |
| Chloroform | ug/L | 0.50 U | 20 | 19.2 | 96 | 70-130 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

MATRIX SPIKE SAMPLE: 2619039

| Parameter | Units | 35421363002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chloromethane | ug/L | 0.62 U | 20 | 22.6 | 113 | 40-140 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 20 | 18.4 | 92 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 20 | 16.5 | 83 | 70-130 | |
| Dibromochloromethane | ug/L | 0.26 U | 20 | 15.8 | 79 | 62-118 | |
| Dibromomethane | ug/L | 0.50 U | 20 | 20.3 | 101 | 70-130 | |
| Ethylbenzene | ug/L | 0.50 U | 20 | 19.7 | 98 | 70-130 | |
| Iodomethane | ug/L | 0.50 U | 40 | 26.0 | 65 | 10-164 | |
| Methylene Chloride | ug/L | 2.5 U | 20 | 16.1 | 81 | 65-136 | |
| Styrene | ug/L | 0.50 U | 20 | 18.0 | 90 | 70-130 | |
| Tetrachloroethene | ug/L | 0.50 U | 20 | 21.2 | 106 | 64-134 | |
| Toluene | ug/L | 0.50 U | 20 | 20.2 | 101 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 20 | 17.5 | 87 | 68-127 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 20 | 17.3 | 86 | 65-121 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 20 | 18.4 | 92 | 42-129 | |
| Trichloroethene | ug/L | 0.50 U | 20 | 19.3 | 96 | 70-130 | |
| Trichlorofluoromethane | ug/L | 0.50 U | 20 | 20.9 | 105 | 65-135 | |
| Vinyl acetate | ug/L | 1.0 U | 20 | 15.7 | 79 | 60-144 | |
| Vinyl chloride | ug/L | 0.50 U | 20 | 21.3 | 107 | 68-131 | |
| Xylene (Total) | ug/L | 1.5 U | 60 | 59.1 | 98 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 97 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 112 | 70-130 | |
| Toluene-d8 (S) | % | | | | 100 | 70-130 | |

SAMPLE DUPLICATE: 2619038

| Parameter | Units | 35421363001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 0.12 U | | 40 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 0.59 U | | 40 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 5.0 U | | 40 | |
| 2-Hexanone | ug/L | 5.0 U | 5.0 U | | 40 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 5.0 U | | 40 | |
| Acetone | ug/L | 10.0 U | 10.0 U | | 40 | |
| Acrylonitrile | ug/L | 5.0 U | 5.0 U | | 40 | |
| Benzene | ug/L | 0.10 U | 0.10 U | | 40 | |
| Bromochloromethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Bromodichloromethane | ug/L | 0.27 U | 0.27 U | | 40 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

SAMPLE DUPLICATE: 2619038

| Parameter | Units | 35421363001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Bromoform | ug/L | 0.50 U | 0.50 U | | 40 | |
| Bromomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Carbon disulfide | ug/L | 5.0 U | 5.0 U | | 40 | |
| Carbon tetrachloride | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloroform | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloromethane | ug/L | 0.62 U | 0.62 U | | 40 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 0.25 U | | 40 | |
| Dibromochloromethane | ug/L | 0.26 U | 0.26 U | | 40 | |
| Dibromomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Ethylbenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Iodomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Methylene Chloride | ug/L | 2.5 U | 2.5 U | | 40 | |
| Styrene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Tetrachloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Toluene | ug/L | 0.50 U | 0.50 U | | 40 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 0.25 U | | 40 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 5.0 U | | 40 | |
| Trichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Trichlorofluoromethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Vinyl acetate | ug/L | 1.0 U | 1.0 U | | 40 | |
| Vinyl chloride | ug/L | 0.50 U | 0.50 U | | 40 | |
| Xylene (Total) | ug/L | 1.5 U | 1.5 U | | 40 | |
| 1,2-Dichloroethane-d4 (S) | % | 106 | 108 | 2 | 40 | |
| 4-Bromofluorobenzene (S) | % | 96 | 96 | 1 | 40 | |
| Toluene-d8 (S) | % | 101 | 103 | 2 | 40 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 482647 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35421363001, 35421363002

METHOD BLANK: 2611787 Matrix: Water
Associated Lab Samples: 35421363001, 35421363002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | 0.0064 U | 0.020 | 0.0064 | 10/04/18 10:46 | |
| 1,2-Dibromoethane (EDB) | ug/L | 0.0075 U | 0.010 | 0.0075 | 10/04/18 10:46 | |

LABORATORY CONTROL SAMPLE: 2611788

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | .25 | 0.24 | 96 | 60-140 | |
| 1,2-Dibromoethane (EDB) | ug/L | .25 | 0.24 | 95 | 60-140 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2613001 2613002

| Parameter | Units | 35421425005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | | .25 | .25 | 0.30 | 0.30 | 122 | 120 | 60-140 | 2 | 40 | |
| 1,2-Dibromoethane (EDB) | ug/L | 0.0071 U | .25 | .25 | 0.30 | 0.29 | 122 | 116 | 60-140 | 4 | 40 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 483507 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35421363003, 35421363004, 35421363005, 35421363007

METHOD BLANK: 2616367 Matrix: Water
Associated Lab Samples: 35421363003, 35421363004, 35421363005, 35421363007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | 0.0064 U | 0.020 | 0.0064 | 10/08/18 18:41 | |
| 1,2-Dibromoethane (EDB) | ug/L | 0.0075 U | 0.010 | 0.0075 | 10/08/18 18:41 | |

LABORATORY CONTROL SAMPLE: 2616368

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | .25 | 0.24 | 94 | 60-140 | |
| 1,2-Dibromoethane (EDB) | ug/L | .25 | 0.24 | 94 | 60-140 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2617122 2617123

| Parameter | Units | 35422305001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | 0.0063 U | .44 | .44 | 0.42 | 0.40 | 97 | 91 | 60-140 | 7 | 40 | |
| 1,2-Dibromoethane (EDB) | ug/L | 0.0074 U | .44 | .44 | 0.38 | 0.35 | 87 | 81 | 60-140 | 8 | 40 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 482560 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35421363001, 35421363002, 35421363003

METHOD BLANK: 2611496 Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 5.0 U | 5.0 | 5.0 | 10/03/18 14:18 | |

LABORATORY CONTROL SAMPLE: 2611497

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 300 | 292 | 97 | 90-110 | |

SAMPLE DUPLICATE: 2611498

| Parameter | Units | 35421115001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 213 | 211 | 1 | 5 | |

SAMPLE DUPLICATE: 2611499

| Parameter | Units | 35421272002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 421 | 426 | 1 | 5 | |

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Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 482928 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35421363004, 35421363005

METHOD BLANK: 2613325 Matrix: Water
Associated Lab Samples: 35421363004, 35421363005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 5.0 U | 5.0 | 5.0 | 10/04/18 14:38 | |

LABORATORY CONTROL SAMPLE: 2613326

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 300 | 288 | 96 | 90-110 | |

SAMPLE DUPLICATE: 2613327

| Parameter | Units | 35421382001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 596 | 594 | 0 | 5 | |

SAMPLE DUPLICATE: 2613328

| Parameter | Units | 35421382011 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 565 | 569 | 1 | 5 | |

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## REPORT OF LABORATORY ANALYSIS

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(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 484577 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

METHOD BLANK: 2621440 Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 2.5 U | 5.0 | 2.5 | 10/10/18 15:10 | |
| Sulfate | mg/L | 2.5 U | 5.0 | 2.5 | 10/10/18 15:10 | |

LABORATORY CONTROL SAMPLE: 2621441

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 50 | 50.3 | 101 | 90-110 | |
| Sulfate | mg/L | 50 | 49.8 | 100 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2621442 2621443

| Parameter | Units | 35421982001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 29.6 | 50 | 50 | 80.5 | 81.2 | 102 | 103 | 90-110 | 1 | 20 | |
| Sulfate | mg/L | 24.5 | 50 | 50 | 75.7 | 76.5 | 102 | 104 | 90-110 | 1 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2621444 2621445

| Parameter | Units | 35421982008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 23.6 | 50 | 50 | 76.2 | 76.2 | 105 | 105 | 90-110 | 0 | 20 | |
| Sulfate | mg/L | 8.7 | 50 | 50 | 61.2 | 61.3 | 105 | 105 | 90-110 | 0 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 482506 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

METHOD BLANK: 2611271 Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363004, 35421363005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.035 U | 0.050 | 0.035 | 10/03/18 08:38 | |

LABORATORY CONTROL SAMPLE: 2611272

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 1 | 1.0 | 100 | 90-110 | |

MATRIX SPIKE SAMPLE: 2611274

| Parameter | Units | 35421065001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 25.9 | 5.1 | 30.2 | 85 | 90-110 | J(M1) |

SAMPLE DUPLICATE: 2611273

| Parameter | Units | 35421065001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 25.9 | 25.8 | 0 | 20 | |

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(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 482517
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35421363004

METHOD BLANK: 2611329
Matrix: Water
Associated Lab Samples: 35421363004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.025 U | 0.050 | 0.025 | 10/03/18 09:24 | |

SAMPLE DUPLICATE: 2611331

| Parameter | Units | 35421436005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.025 U | 0.025 U | | 20 | |

SAMPLE DUPLICATE: 2611333

| Parameter | Units | 35421548001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.025 U | 0.025 U | | 20 | |

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(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35421363

QC Batch: 482771 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363005

METHOD BLANK: 2612541 Matrix: Water
Associated Lab Samples: 35421363001, 35421363002, 35421363003, 35421363005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.025 U | 0.050 | 0.025 | 10/03/18 18:58 | |

SAMPLE DUPLICATE: 2612543

| Parameter | Units | 35421326001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 1.8 | 1.8 | 2 | 20 | |

SAMPLE DUPLICATE: 2612545

| Parameter | Units | 35421393002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.025 U | 0.025 U | | 20 | |

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Ormond Beach, FL 32174
(386)672-5668

# QUALIFIERS

Project: Central Cty
Pace Project No.: 35421363

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-O | Pace Analytical Services - Ormond Beach |
| PASI-Tp | Pace Analytical Services - Tampa |

## ANALYTE QUALIFIERS

| | |
|---|---|
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| U | Compound was analyzed for but not detected. |
| J(HS) | Estimated Value. Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter). |
| J(L1) | Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high. |
| J(M1) | Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| L | Off-scale high. Actual value is known to be greater than value given. |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central Cty
Pace Project No.: 35421363

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **35421363001** | **MW-18R (29095)** | | | | |
| **35421363002** | **MW-19A (27140)** | | | | |
| **35421363003** | **MW-20A (27141)** | | | | |
| **35421363005** | **dup #1** | | | | |
| **35421363001** | **MW-18R (29095)** | EPA 8011 | 482647 | EPA 8011 | 482872 |
| **35421363002** | **MW-19A (27140)** | EPA 8011 | 482647 | EPA 8011 | 482872 |
| **35421363003** | **MW-20A (27141)** | EPA 8011 | 483507 | EPA 8011 | 483846 |
| **35421363004** | **Equip Blank #1** | EPA 8011 | 483507 | EPA 8011 | 483846 |
| **35421363005** | **dup #1** | EPA 8011 | 483507 | EPA 8011 | 483846 |
| **35421363007** | **Trip Blank 8011 #3** | EPA 8011 | 483507 | EPA 8011 | 483846 |
| **35421363001** | **MW-18R (29095)** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421363002** | **MW-19A (27140)** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421363003** | **MW-20A (27141)** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421363004** | **Equip Blank #1** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421363005** | **dup #1** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35421363001** | **MW-18R (29095)** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421363002** | **MW-19A (27140)** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421363003** | **MW-20A (27141)** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421363004** | **Equip Blank #1** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421363005** | **dup #1** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35421363001** | **MW-18R (29095)** | EPA 7470 | 483723 | EPA 7470 | 483871 |
| **35421363002** | **MW-19A (27140)** | EPA 7470 | 483723 | EPA 7470 | 483871 |
| **35421363003** | **MW-20A (27141)** | EPA 7470 | 483723 | EPA 7470 | 483871 |
| **35421363004** | **Equip Blank #1** | EPA 7470 | 484941 | EPA 7470 | 485090 |
| **35421363005** | **dup #1** | EPA 7470 | 484941 | EPA 7470 | 485090 |
| **35421363001** | **MW-18R (29095)** | EPA 8260 | 484082 | | |
| **35421363002** | **MW-19A (27140)** | EPA 8260 | 484082 | | |
| **35421363003** | **MW-20A (27141)** | EPA 8260 | 484082 | | |
| **35421363004** | **Equip Blank #1** | EPA 8260 | 484082 | | |
| **35421363005** | **dup #1** | EPA 8260 | 484082 | | |
| **35421363006** | **Trip Blank 8260 #3** | EPA 8260 | 484082 | | |
| **35421363001** | **MW-18R (29095)** | SM 2540C | 482560 | | |
| **35421363002** | **MW-19A (27140)** | SM 2540C | 482560 | | |
| **35421363003** | **MW-20A (27141)** | SM 2540C | 482560 | | |
| **35421363004** | **Equip Blank #1** | SM 2540C | 482928 | | |
| **35421363005** | **dup #1** | SM 2540C | 482928 | | |
| **35421363001** | **MW-18R (29095)** | EPA 300.0 | 484577 | | |
| **35421363002** | **MW-19A (27140)** | EPA 300.0 | 484577 | | |
| **35421363003** | **MW-20A (27141)** | EPA 300.0 | 484577 | | |
| **35421363004** | **Equip Blank #1** | EPA 300.0 | 484577 | | |
| **35421363005** | **dup #1** | EPA 300.0 | 484577 | | |
| **35421363001** | **MW-18R (29095)** | EPA 350.1 | 482506 | | |
| **35421363002** | **MW-19A (27140)** | EPA 350.1 | 482506 | | |

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(386)672-5668

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central Cty
Pace Project No.: 35421363

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **35421363003** | **MW-20A (27141)** | EPA 350.1 | 482506 | | |
| **35421363004** | **Equip Blank #1** | EPA 350.1 | 482506 | | |
| **35421363005** | **dup #1** | EPA 350.1 | 482506 | | |
| **35421363001** | **MW-18R (29095)** | EPA 353.2 | 482771 | | |
| **35421363002** | **MW-19A (27140)** | EPA 353.2 | 482771 | | |
| **35421363003** | **MW-20A (27141)** | EPA 353.2 | 482771 | | |
| **35421363004** | **Equip Blank #1** | EPA 353.2 | 482517 | | |
| **35421363005** | **dup #1** | EPA 353.2 | 482771 | | |



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WO# : 35421363

35421363

Pace Analytical

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

**Section A**
**Required Client Information:**

| | |
|---|---|
| Company: | Sarasota County |
| Address: | 1255 T. Mabry Carlton Parkway |
| | Venice, FL 34292 |
| Email: | |
| Phone: | 941-650-9834 Fax: |
| Requested Due Date: | |

**Required Project Information:**

| | |
|---|---|
| Report To: | Mr. Cesar Rodriguez |
| Copy To: | |
| Purchase Order #: | 180736 |
| Project Name: | Central Cty MW wells Appdx 1 |
| Project #: | |

**Section C**
**Invoice Information:**

| | |
|---|---|
| Attention: | |
| Company Name: | |
| Address: | |
| Pace Quote: | |
| Pace Project Manager: | martha.montero@pacelabs.com, |
| Pace Profile #: | 833 #1 |

**Regulatory Agency**

**State / Location**
FL

**Requested Analysis Filtered (Y/N)**

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analyses Test Y/N | HCL VOC by 8260 | Unpreserved EDB and DBCP EPA 8011 | H2SO4 NH3 | HNO3 metals by 6010/6020/7470 Fe,Hg,Na,Mn | Unpreserved TDS NO3 Cl SO4 | Residual Chlorine (Y/N) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ~~MW-1R (20585)~~ GE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | Please use ADAPT, analyze all compounds on App 1 |
| 2 | ~~MW-8A (21453)~~ GE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 3 | ~~MW-9 (4509)~~ GE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 4 | ~~MW-10R (4510)~~ GE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 5 | ~~MW-15 (23031)~~ GE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 6 | ~~MW-16 (23032)~~ GE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 7 | ~~MW-17 (23033)~~ GE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 8 | MW-18R (29095) | WT | | 10/2/18 | 1330 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 9 | MW-19A(27140) | WT | | 10/2/18 | 1216 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 10 | MW-20A (27141) | WT | | 10/2/18 | 1025 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 11 | Equip ~~field~~ blank #1 | WT | | 10/2/18 | 0920 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 12 | dup #1 | WT | | 10/2/18 | 1330 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Central county Monitoring wells Adapt Dottie Reed 9/20 | | | | Alison Eggleston / Sarasota Co | 9/28/18 | 1500 | | | | |
| | Alison J Eggleston | 10/2/18 | 1400 | [illegible] | 10/2/18 | 1410 | 2.03 | | | |
| | [illegible] | 10/2/18 | 1540 | M McGinn / PACE | 10-2-18 | 1540 | 0.3 | Y | ~ | Y |
| | | | | | | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Alison Eggleston

SIGNATURE of SAMPLER:

DATE Signed:

Pace Analytical
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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | Sarasota County | Report To: | Mr. Cesar Rodriguez | Attention: | |
| Address: | 1255 T. Mabry Carlton Parkway | Copy To: | | Company Name: | |
| Venice, FL 34292 | | | | Address: | |
| Email: | | Purchase Order #: | 180736 | Pace Quote: | |
| Phone: 941-650-9834 | Fax: | Project Name: | Central Cty MW wells Appdx 1 | Pace Project Manager: | martha.montero@pacelabs.com, |
| Requested Due Date: | | Project #: | | Pace Profile #: | 833 #1 |

Regulatory Agency:

State / Location: FL

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analyses Test Y/N | VOC by 8260 (HCL) | EDB and DBCP EPA 8011 (Unpreserved) | NH3 (H2SO4) | metals by 6010/6020/7470 Fe,Hg,Na,Mn (HNO3) | TDS NO3 Cl SO4 (Unpreserved) | Residual Chlorine (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | ~~MW-3 4503~~ AE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 14 | ~~MW-5 4505~~ AE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 15 | ~~Trip Blank 8260 #1~~ AE | WT | | | | | | | | | | | | | | | | | 2 | | | | | | |
| 16 | ~~Trip Blank 8260 #2~~ AE | WT | | | | | | | | | | | | | | | | | 2 | | | | | | |
| 17 | Trip Blank 8260 #3 | WT | | 10/2/18 | | | | | | | | | | | | | | | 2 | | | | | | |
| 18 | ~~Trip Blank 8260 #4~~ AE | WT | | | | | | | | | | | | | | | | | 2 | | | | | | |
| 19 | ~~Trip Blank 8011 #1~~ AE | WT | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 20 | ~~Trip Blank 8011 #2~~ AE | WT | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 21 | Trip Blank 8011 #3 | WT | | 10/2/18 | | | | | | | | | | | | | | | | 2 | | | | | |
| 22 | ~~Trip Blank 8011 #3~~ AE | WT | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 23 | | WT | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | WT | | | | | | | | | | | | | | | | | | | | | | | |

Please use ADAPT, analyze all compounds on App 1

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| Central county Monitoring wells Adapt | | | | Alison Eggleston | 9/28/18 | 1500 | | | | |
| | Alison Eggleston | 10/2/18 | 1400 | [illegible] | 10/2/18 | 1410 | TRO3 | | | |
| | [illegible] | 10/2/18 | 1540 | [illegible] PACE | 10218 | 1540 | 0.3 | Y | ~ | Y |
| | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alison Eggleston

SIGNATURE of SAMPLER: DATE Signed:

| Pace Analytical Florida Laboratory | Document Name: Sample Condition Upon Receipt Form | Document Revised: May 30, 2018 |
|---|---|---|
| | Document No.: F-FL-C-007 rev. 13 | Issuing Authority: Pace Florida Quality Office |

## Sample Condition Upon Receipt Form (SCUR)

**Project #** WO#: 35421363

**Project Manager:** PM: MIM **Due Date:** 10/16/18

**Client:** CLIENT: SARCOU

**Date and Initials of person:**
**Examining contents:** 10/2/18 NMT
**Label:**
**Deliver:**
**pH:**

Thermometer Used: T-203 Date: 10-2-18 Time: 1540 Initials: NMT

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

| | | | | |
|---|---|---|---|---|
| **Cooler #1 Temp.°C** | 0.3 (Visual) | 0.0 (Correction Factor) | 0.3 (Actual) | ☑ Samples on ice, cooling process has begun |
| **Cooler #2 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| **Cooler #3 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| **Cooler #4 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| **Cooler #5 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| **Cooler #6 Temp.°C** | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

**Shipping Method:** ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

**Billing:** ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

**Tracking #**

**Custody Seal on Cooler/Box Present:** ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

**Packing Material:** ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

**Samples shorted to lab (If Yes, complete)** Shorted Date: Shorted Time: Qty:

| | | Comments: |
|---|---|---|
| Chain of Custody Present | ☑ Yes ☐ No ☐ N/A | |
| Chain of Custody Filled Out | ☑ Yes ☐ No ☐ N/A | |
| Relinquished Signature & Sampler Name COC | ☐ Yes ☑ No ☐ N/A | No sampler signature |
| Samples Arrived within Hold Time | ☑ Yes ☐ No ☐ N/A | |
| Rush TAT requested on COC | ☐ Yes ☑ No ☐ N/A | |
| Sufficient Volume | ☑ Yes ☐ No ☐ N/A | |
| Correct Containers Used | ☑ Yes ☐ No ☐ N/A | |
| Containers Intact | ☑ Yes ☐ No ☐ N/A | |
| Sample Labels match COC (sample IDs & date/time of collection) | ☑ Yes ☐ No ☐ N/A | |
| All containers needing acid/base preservation have been checked. | ☑ Yes ☐ No ☐ N/A | Preservation Information: |
| All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates | ☑ Yes ☐ No ☐ N/A | Preservative: Lot #/Trace #: Date: Time: Initials: |
| Headspace in VOA Vials? ( >6mm): | ☑ Yes ☐ No ☐ N/A | 2 of 2 vials for Trip Blank (8260) |
| Trip Blank Present: | ☑ Yes ☐ No ☐ N/A | |

**Client Notification/ Resolution:**
Person Contacted: Date/Time:

**Comments/ Resolution (use back for additional comments):**

Project Manager Review: Date:

**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

October 18, 2018

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

**REVIEWED**
***By Cesar Rodriguez-Palacios at 3:31 pm, Dec 03, 2018***

RE: Project: Central Cty
Pace Project No.: 35422069

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County



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Ormond Beach, FL 32174
(386)672-5668

# CERTIFICATIONS

Project: Central Cty
Pace Project No.: 35422069

**Ormond Beach Certification IDs**

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

**Tampa Certification IDs**

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

## REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## SAMPLE SUMMARY

Project: Central Cty
Pace Project No.: 35422069

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **35422069001** | **MW-16 (23032)** | Water | 10/04/18 12:30 | 10/04/18 16:10 |
| **35422069002** | **MW-17 (23033)** | Water | 10/04/18 10:20 | 10/04/18 16:10 |
| **35422069003** | **Trip Blank #1** | Water | 10/04/18 10:20 | 10/04/18 16:10 |
| **35422069004** | **Trip Blank #2** | Water | 10/04/18 10:20 | 10/04/18 16:10 |

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## SAMPLE ANALYTE COUNT

Project: Central Cty
Pace Project No.: 35422069

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **35422069001** | **MW-16 (23032)** | EPA 8011 | MMB | 2 | PASI-O |
| | | EPA 6010 | JWP, SC1 | 15 | PASI-O |
| | | EPA 6020 | FDV, KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | SK1 | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | SEW | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | AMP | 1 | PASI-O |
| **35422069002** | **MW-17 (23033)** | EPA 8011 | MMB | 2 | PASI-O |
| | | EPA 6010 | JWP, SC1 | 15 | PASI-O |
| | | EPA 6020 | FDV, KPP | 3 | PASI-O |
| | | EPA 7470 | AMS | 1 | PASI-O |
| | | EPA 8260 | SK1 | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | EPA 300.0 | SEW | 2 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 353.2 | AMP | 1 | PASI-O |
| **35422069003** | **Trip Blank #1** | EPA 8260 | SK1 | 48 | PASI-O |
| **35422069004** | **Trip Blank #2** | EPA 8011 | MMB | 2 | PASI-O |

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

# ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

**Sample: MW-16 (23032)** **Lab ID: 35422069001** Collected: 10/04/18 12:30 Received: 10/04/18 16:10 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.33** | Std. Units | | | 1 | | 10/04/18 12:30 | | |
| Field Temperature | **29.20** | deg C | | | 1 | | 10/04/18 12:30 | | |
| Field Specific Conductance | **2422** | umhos/cm | | | 1 | | 10/04/18 12:30 | | |
| Oxygen, Dissolved | **0.04** | mg/L | | | 1 | | 10/04/18 12:30 | 7782-44-7 | |
| Turbidity | **1.03** | NTU | | | 1 | | 10/04/18 12:30 | | |
| Water Level(NGVD) | **19.93** | feet | | | 1 | | 10/04/18 12:30 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 10/08/18 08:58 | 10/09/18 03:19 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0073 U** | ug/L | 0.0097 | 0.0073 | 1 | 10/08/18 08:58 | 10/09/18 03:19 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **96.2** | ug/L | 10.0 | 0.84 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7440-43-9 | |
| Chromium | **3.0 I** | ug/L | 5.0 | 1.7 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7440-47-3 | |
| Cobalt | **2.2 I** | ug/L | 10.0 | 0.96 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7440-50-8 | |
| Iron | **61800** | ug/L | 800 | 184 | 20 | 10/05/18 01:39 | 10/08/18 11:14 | 7439-89-6 | |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7439-92-1 | |
| Manganese | **58.7** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7439-96-5 | |
| Nickel | **2.7 I** | ug/L | 5.0 | 2.1 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7440-22-4 | |
| Sodium | **152** | mg/L | 2.0 | 0.27 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7440-23-5 | |
| Vanadium | **8.5 I** | ug/L | 10.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/05/18 01:39 | 10/05/18 21:56 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 20:01 | 7440-36-0 | |
| Arsenic | **55.7** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 20:01 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 19:05 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/16/18 12:08 | 10/17/18 20:12 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/15/18 00:29 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/15/18 00:29 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/15/18 00:29 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/15/18 00:29 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/15/18 00:29 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/15/18 00:29 | 78-93-3 | |

## REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

**Sample: MW-16 (23032)** **Lab ID: 35422069001** Collected: 10/04/18 12:30 Received: 10/04/18 16:10 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/15/18 00:29 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/15/18 00:29 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/15/18 00:29 | 75-00-3 | J(L1) |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/15/18 00:29 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/15/18 00:29 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/15/18 00:29 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/15/18 00:29 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/15/18 00:29 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/15/18 00:29 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/15/18 00:29 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/15/18 00:29 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/15/18 00:29 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/15/18 00:29 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/15/18 00:29 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/15/18 00:29 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/15/18 00:29 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:29 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/15/18 00:29 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 102 | % | 70-130 | | 1 | | 10/15/18 00:29 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 94 | % | 70-130 | | 1 | | 10/15/18 00:29 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 70-130 | | 1 | | 10/15/18 00:29 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **1240** | mg/L | 10.0 | 10.0 | 1 | | 10/10/18 15:24 | | |

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(386)672-5668

## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

**Sample: MW-16 (23032)** **Lab ID: 35422069001** Collected: 10/04/18 12:30 Received: 10/04/18 16:10 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **128** | mg/L | 25.0 | 12.5 | 5 | | 10/15/18 13:13 | 16887-00-6 | |
| Sulfate | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/16/18 05:44 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **38.5** | mg/L | 0.25 | 0.17 | 5 | | 10/06/18 13:31 | 7664-41-7 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.091** | mg/L | 0.050 | 0.025 | 1 | | 10/05/18 18:16 | 14797-55-8 | |

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# ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

**Sample: MW-17 (23033)** **Lab ID: 35422069002** Collected: 10/04/18 10:20 Received: 10/04/18 16:10 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.36** | Std. Units | | | 1 | | 10/04/18 10:20 | | |
| Field Temperature | **28.06** | deg C | | | 1 | | 10/04/18 10:20 | | |
| Field Specific Conductance | **1810** | umhos/cm | | | 1 | | 10/04/18 10:20 | | |
| Oxygen, Dissolved | **0.03** | mg/L | | | 1 | | 10/04/18 10:20 | 7782-44-7 | |
| Turbidity | **1.39** | NTU | | | 1 | | 10/04/18 10:20 | | |
| Water Level(NGVD) | **19.10** | feet | | | 1 | | 10/04/18 10:20 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0061 U** | ug/L | 0.019 | 0.0061 | 1 | 10/08/18 08:58 | 10/09/18 03:33 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0072 U** | ug/L | 0.0096 | 0.0072 | 1 | 10/08/18 08:58 | 10/09/18 03:33 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Barium | **95.6** | ug/L | 10.0 | 0.84 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7440-39-3 | |
| Beryllium | **1.6 U** | ug/L | 4.0 | 1.6 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7440-41-7 | |
| Cadmium | **0.33 U** | ug/L | 1.0 | 0.33 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7440-43-9 | |
| Chromium | **1.8 I** | ug/L | 5.0 | 1.7 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7440-47-3 | |
| Cobalt | **1.8 I** | ug/L | 10.0 | 0.96 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7440-48-4 | |
| Copper | **2.6 U** | ug/L | 5.0 | 2.6 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7440-50-8 | |
| Iron | **88400** | ug/L | 800 | 184 | 20 | 10/05/18 01:39 | 10/08/18 11:18 | 7439-89-6 | J(M1) |
| Lead | **4.6 U** | ug/L | 10.0 | 4.6 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7439-92-1 | |
| Manganese | **10.5** | ug/L | 5.0 | 0.42 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7439-96-5 | |
| Nickel | **2.7 I** | ug/L | 5.0 | 2.1 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7440-02-0 | |
| Selenium | **8.5 U** | ug/L | 15.0 | 8.5 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7782-49-2 | |
| Silver | **1.0 U** | ug/L | 5.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7440-22-4 | |
| Sodium | **60.8** | mg/L | 2.0 | 0.27 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7440-23-5 | |
| Vanadium | **5.8 I** | ug/L | 10.0 | 1.0 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7440-62-2 | |
| Zinc | **11.0 U** | ug/L | 20.0 | 11.0 | 1 | 10/05/18 01:39 | 10/05/18 21:59 | 7440-66-6 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 20:03 | 7440-36-0 | |
| Arsenic | **73.0** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/06/18 20:03 | 7440-38-2 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 10/05/18 01:37 | 10/05/18 19:06 | 7440-28-0 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | **0.10 U** | ug/L | 0.20 | 0.10 | 1 | 10/16/18 12:08 | 10/17/18 20:14 | 7439-97-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/15/18 00:53 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/15/18 00:53 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/15/18 00:53 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/15/18 00:53 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/15/18 00:53 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/15/18 00:53 | 78-93-3 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

**Sample: MW-17 (23033)** **Lab ID: 35422069002** Collected: 10/04/18 10:20 Received: 10/04/18 16:10 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/15/18 00:53 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/15/18 00:53 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/15/18 00:53 | 75-00-3 | J(L1) |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/15/18 00:53 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/15/18 00:53 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/15/18 00:53 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/15/18 00:53 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/15/18 00:53 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/15/18 00:53 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/15/18 00:53 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/15/18 00:53 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/15/18 00:53 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/15/18 00:53 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/15/18 00:53 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/15/18 00:53 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/15/18 00:53 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/15/18 00:53 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/15/18 00:53 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | | 1 | | 10/15/18 00:53 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | | 1 | | 10/15/18 00:53 | 17060-07-0 | |
| Toluene-d8 (S) | 105 | % | 70-130 | | 1 | | 10/15/18 00:53 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **936** | mg/L | 10.0 | 10.0 | 1 | | 10/10/18 15:24 | | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

**Sample: MW-17 (23033)** **Lab ID: 35422069002** Collected: 10/04/18 10:20 Received: 10/04/18 16:10 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Chloride | **84.5** | mg/L | 5.0 | 2.5 | 1 | | 10/16/18 06:06 | 16887-00-6 | |
| Sulfate | **2.5 U** | mg/L | 5.0 | 2.5 | 1 | | 10/16/18 06:06 | 14808-79-8 | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **34.6** | mg/L | 0.25 | 0.17 | 5 | | 10/06/18 13:33 | 7664-41-7 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **0.066** | mg/L | 0.050 | 0.025 | 1 | | 10/05/18 18:18 | 14797-55-8 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

**Sample: Trip Blank #1** **Lab ID: 35422069003** Collected: 10/04/18 10:20 Received: 10/04/18 16:10 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 10/14/18 20:07 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/14/18 20:07 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 10/14/18 20:07 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 10/14/18 20:07 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 10/14/18 20:07 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/14/18 20:07 | 78-93-3 | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/14/18 20:07 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 10/14/18 20:07 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/14/18 20:07 | 75-00-3 | J(L1) |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 10/14/18 20:07 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 10/14/18 20:07 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 10/14/18 20:07 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/14/18 20:07 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/14/18 20:07 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 10/14/18 20:07 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/14/18 20:07 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 10/14/18 20:07 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 10/14/18 20:07 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 10/14/18 20:07 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 10/14/18 20:07 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 10/14/18 20:07 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 10/14/18 20:07 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 10/14/18 20:07 | 75-01-4 | |
| Xylene (Total) | **1.5 U** | ug/L | 3.0 | 1.5 | 1 | | 10/14/18 20:07 | 1330-20-7 | |

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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

**Sample: Trip Blank #1** **Lab ID: 35422069003** Collected: 10/04/18 10:20 Received: 10/04/18 16:10 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | | 1 | | 10/14/18 20:07 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 95 | % | 70-130 | | 1 | | 10/14/18 20:07 | 17060-07-0 | |
| Toluene-d8 (S) | 103 | % | 70-130 | | 1 | | 10/14/18 20:07 | 2037-26-5 | |



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## ANALYTICAL RESULTS

Project: Central Cty
Pace Project No.: 35422069

**Sample: Trip Blank #2** **Lab ID: 35422069004** Collected: 10/04/18 10:20 Received: 10/04/18 16:10 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 10/08/18 08:58 | 10/09/18 03:49 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0073 U** | ug/L | 0.0097 | 0.0073 | 1 | 10/08/18 08:58 | 10/09/18 03:49 | 106-93-4 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 485692
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2627727 Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 0.10 U | 0.20 | 0.10 | 10/17/18 14:43 | |

LABORATORY CONTROL SAMPLE: 2627728

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 2 | 2.0 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2627729 2627730

| Parameter | Units | 35421718001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 0.10 U | 2 | 2 | 1.9 | 2.0 | 96 | 98 | 75-125 | 3 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 483216 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2614848 Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Barium | ug/L | 0.84 U | 10.0 | 0.84 | 10/05/18 20:48 | |
| Beryllium | ug/L | 1.6 U | 4.0 | 1.6 | 10/05/18 20:48 | |
| Cadmium | ug/L | 0.33 U | 1.0 | 0.33 | 10/05/18 20:48 | |
| Chromium | ug/L | 1.7 U | 5.0 | 1.7 | 10/05/18 20:48 | |
| Cobalt | ug/L | 0.96 U | 10.0 | 0.96 | 10/05/18 20:48 | |
| Copper | ug/L | 2.6 U | 5.0 | 2.6 | 10/05/18 20:48 | |
| Iron | ug/L | 9.2 U | 40.0 | 9.2 | 10/05/18 20:48 | |
| Lead | ug/L | 4.6 U | 10.0 | 4.6 | 10/05/18 20:48 | |
| Manganese | ug/L | 0.42 U | 5.0 | 0.42 | 10/05/18 20:48 | |
| Nickel | ug/L | 2.1 U | 5.0 | 2.1 | 10/05/18 20:48 | |
| Selenium | ug/L | 8.5 U | 15.0 | 8.5 | 10/05/18 20:48 | |
| Silver | ug/L | 1.0 U | 5.0 | 1.0 | 10/05/18 20:48 | |
| Sodium | mg/L | 0.27 U | 2.0 | 0.27 | 10/05/18 20:48 | |
| Vanadium | ug/L | 1.0 U | 10.0 | 1.0 | 10/05/18 20:48 | |
| Zinc | ug/L | 11.0 U | 20.0 | 11.0 | 10/05/18 20:48 | |

LABORATORY CONTROL SAMPLE: 2614849

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Barium | ug/L | 250 | 257 | 103 | 80-120 | |
| Beryllium | ug/L | 25 | 25.7 | 103 | 80-120 | |
| Cadmium | ug/L | 25 | 26.2 | 105 | 80-120 | |
| Chromium | ug/L | 250 | 260 | 104 | 80-120 | |
| Cobalt | ug/L | 250 | 262 | 105 | 80-120 | |
| Copper | ug/L | 250 | 254 | 102 | 80-120 | |
| Iron | ug/L | 2500 | 2600 | 104 | 80-120 | |
| Lead | ug/L | 250 | 259 | 104 | 80-120 | |
| Manganese | ug/L | 250 | 264 | 106 | 80-120 | |
| Nickel | ug/L | 250 | 260 | 104 | 80-120 | |
| Selenium | ug/L | 250 | 265 | 106 | 80-120 | |
| Silver | ug/L | 25 | 26.1 | 104 | 80-120 | |
| Sodium | mg/L | 12.5 | 12.6 | 101 | 80-120 | |
| Vanadium | ug/L | 250 | 259 | 103 | 80-120 | |
| Zinc | ug/L | 1250 | 1310 | 105 | 80-120 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614851 2614852

| Parameter | Units | 35422069002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | ug/L | 95.6 | 250 | 250 | 348 | 351 | 101 | 102 | 75-125 | 1 | 20 | |
| Beryllium | ug/L | 1.6 U | 25 | 25 | 21.0 | 23.5 | 84 | 94 | 75-125 | 11 | 20 | |
| Cadmium | ug/L | 0.33 U | 25 | 25 | 25.0 | 24.9 | 99 | 99 | 75-125 | 0 | 20 | |
| Chromium | ug/L | 1.8 I | 250 | 250 | 256 | 245 | 102 | 97 | 75-125 | 4 | 20 | |
| Cobalt | ug/L | 1.8 I | 250 | 250 | 261 | 260 | 104 | 103 | 75-125 | 0 | 20 | |
| Copper | ug/L | 2.6 U | 250 | 250 | 259 | 261 | 104 | 105 | 75-125 | 1 | 20 | |
| Iron | ug/L | 88400 | 2500 | 2500 | 87100 | 85300 | -51 | -123 | 75-125 | 2 | 20 | J(M1), L |
| Lead | ug/L | 4.6 U | 250 | 250 | 249 | 257 | 99 | 103 | 75-125 | 3 | 20 | |
| Manganese | ug/L | 10.5 | 250 | 250 | 267 | 245 | 103 | 94 | 75-125 | 9 | 20 | |
| Nickel | ug/L | 2.7 I | 250 | 250 | 255 | 260 | 101 | 103 | 75-125 | 2 | 20 | |
| Selenium | ug/L | 8.5 U | 250 | 250 | 254 | 255 | 102 | 102 | 75-125 | 0 | 20 | |
| Silver | ug/L | 1.0 U | 25 | 25 | 25.5 | 24.7 | 102 | 99 | 75-125 | 3 | 20 | |
| Sodium | mg/L | 60.8 | 12.5 | 12.5 | 73.5 | 76.3 | 102 | 123 | 75-125 | 4 | 20 | |
| Vanadium | ug/L | 5.8 I | 250 | 250 | 264 | 252 | 103 | 98 | 75-125 | 5 | 20 | |
| Zinc | ug/L | 11.0 U | 1250 | 1250 | 1240 | 1320 | 98 | 105 | 75-125 | 6 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 483215
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2614821 Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 0.50 U | 1.0 | 0.50 | 10/06/18 19:13 | |
| Arsenic | ug/L | 0.50 U | 1.0 | 0.50 | 10/06/18 19:13 | |
| Thallium | ug/L | 0.50 U | 1.0 | 0.50 | 10/05/18 18:21 | |

LABORATORY CONTROL SAMPLE: 2614822

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 50 | 48.5 | 97 | 80-120 | |
| Arsenic | ug/L | 50 | 48.0 | 96 | 80-120 | |
| Thallium | ug/L | 50 | 49.1 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2614823 2614824

| Parameter | Units | 35421363001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ug/L | 0.50 U | 50 | 50 | 50.8 | 54.0 | 101 | 108 | 75-125 | 6 | 20 | |
| Arsenic | ug/L | 9.6 | 50 | 50 | 60.1 | 64.3 | 101 | 109 | 75-125 | 7 | 20 | |
| Thallium | ug/L | 0.50 U | 50 | 50 | 51.5 | 51.3 | 103 | 103 | 75-125 | 0 | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 485456 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35422069001, 35422069002, 35422069003

METHOD BLANK: 2626688 Matrix: Water
Associated Lab Samples: 35422069001, 35422069002, 35422069003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 0.50 | 0.12 | 10/14/18 19:20 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 2.0 | 0.59 | 10/14/18 19:20 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 10.0 | 5.0 | 10/14/18 19:20 | |
| 2-Hexanone | ug/L | 5.0 U | 10.0 | 5.0 | 10/14/18 19:20 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 10.0 | 5.0 | 10/14/18 19:20 | |
| Acetone | ug/L | 10.0 U | 20.0 | 10.0 | 10/14/18 19:20 | |
| Acrylonitrile | ug/L | 5.0 U | 10.0 | 5.0 | 10/14/18 19:20 | |
| Benzene | ug/L | 0.10 U | 1.0 | 0.10 | 10/14/18 19:20 | |
| Bromochloromethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Bromodichloromethane | ug/L | 0.27 U | 0.60 | 0.27 | 10/14/18 19:20 | |
| Bromoform | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Bromomethane | ug/L | 0.50 U | 5.0 | 0.50 | 10/14/18 19:20 | |
| Carbon disulfide | ug/L | 5.0 U | 10.0 | 5.0 | 10/14/18 19:20 | |
| Carbon tetrachloride | ug/L | 0.50 U | 3.0 | 0.50 | 10/14/18 19:20 | |
| Chlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Chloroethane | ug/L | 0.50 U | 10.0 | 0.50 | 10/14/18 19:20 | |
| Chloroform | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Chloromethane | ug/L | 0.62 U | 1.0 | 0.62 | 10/14/18 19:20 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 0.50 | 0.25 | 10/14/18 19:20 | |
| Dibromochloromethane | ug/L | 0.26 U | 2.0 | 0.26 | 10/14/18 19:20 | |
| Dibromomethane | ug/L | 0.50 U | 2.0 | 0.50 | 10/14/18 19:20 | |
| Ethylbenzene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Iodomethane | ug/L | 0.50 U | 10.0 | 0.50 | 10/14/18 19:20 | |
| Methylene Chloride | ug/L | 2.5 U | 5.0 | 2.5 | 10/14/18 19:20 | |
| Styrene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Tetrachloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Toluene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 0.50 | 0.25 | 10/14/18 19:20 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 10.0 | 5.0 | 10/14/18 19:20 | |
| Trichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

METHOD BLANK: 2626688 Matrix: Water
Associated Lab Samples: 35422069001, 35422069002, 35422069003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Vinyl acetate | ug/L | 1.0 U | 10.0 | 1.0 | 10/14/18 19:20 | |
| Vinyl chloride | ug/L | 0.50 U | 1.0 | 0.50 | 10/14/18 19:20 | |
| Xylene (Total) | ug/L | 1.5 U | 3.0 | 1.5 | 10/14/18 19:20 | |
| 1,2-Dichloroethane-d4 (S) | % | 98 | 70-130 | | 10/14/18 19:20 | |
| 4-Bromofluorobenzene (S) | % | 103 | 70-130 | | 10/14/18 19:20 | |
| Toluene-d8 (S) | % | 105 | 70-130 | | 10/14/18 19:20 | |

LABORATORY CONTROL SAMPLE: 2626689

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 18.2 | 91 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 17.5 | 88 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 19.3 | 97 | 68-125 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 19.9 | 100 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 20 | 18.2 | 91 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 20 | 20.2 | 101 | 66-133 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 19.5 | 98 | 62-127 | |
| 1,2-Dichlorobenzene | ug/L | 20 | 19.0 | 95 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 20 | 17.6 | 88 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 20 | 18.5 | 92 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 19.1 | 95 | 70-130 | |
| 2-Butanone (MEK) | ug/L | 40 | 34.2 | 86 | 47-143 | |
| 2-Hexanone | ug/L | 40 | 39.8 | 99 | 48-145 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 40 | 37.3 | 93 | 57-132 | |
| Acetone | ug/L | 40 | 35.5 | 89 | 46-148 | |
| Acrylonitrile | ug/L | 200 | 206 | 103 | 60-143 | |
| Benzene | ug/L | 20 | 18.8 | 94 | 70-130 | |
| Bromochloromethane | ug/L | 20 | 19.5 | 97 | 70-130 | |
| Bromodichloromethane | ug/L | 20 | 18.1 | 90 | 70-130 | |
| Bromoform | ug/L | 20 | 18.0 | 90 | 49-126 | |
| Bromomethane | ug/L | 20 | 19.9 | 100 | 10-165 | |
| Carbon disulfide | ug/L | 20 | 16.6 | 83 | 60-141 | |
| Carbon tetrachloride | ug/L | 20 | 18.4 | 92 | 63-126 | |
| Chlorobenzene | ug/L | 20 | 19.9 | 99 | 70-130 | |
| Chloroethane | ug/L | 20 | 31.1 | 156 | 71-142 | J(L1) |
| Chloroform | ug/L | 20 | 17.3 | 86 | 70-130 | |
| Chloromethane | ug/L | 20 | 14.7 | 73 | 40-140 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 17.0 | 85 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 17.2 | 86 | 70-130 | |
| Dibromochloromethane | ug/L | 20 | 16.2 | 81 | 62-118 | |
| Dibromomethane | ug/L | 20 | 19.6 | 98 | 70-130 | |
| Ethylbenzene | ug/L | 20 | 19.0 | 95 | 70-130 | |
| Iodomethane | ug/L | 40 | 9.6 I | 24 | 10-164 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

LABORATORY CONTROL SAMPLE: 2626689

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Methylene Chloride | ug/L | 20 | 19.0 | 95 | 65-136 | |
| Styrene | ug/L | 20 | 19.5 | 97 | 70-130 | |
| Tetrachloroethene | ug/L | 20 | 20.1 | 100 | 64-134 | |
| Toluene | ug/L | 20 | 19.5 | 98 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 20 | 17.1 | 86 | 68-127 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 17.3 | 87 | 65-121 | |
| trans-1,4-Dichloro-2-butene | ug/L | 20 | 17.0 | 85 | 42-129 | |
| Trichloroethene | ug/L | 20 | 19.6 | 98 | 70-130 | |
| Trichlorofluoromethane | ug/L | 20 | 21.3 | 106 | 65-135 | |
| Vinyl acetate | ug/L | 20 | 19.5 | 97 | 60-144 | |
| Vinyl chloride | ug/L | 20 | 22.2 | 111 | 68-131 | |
| Xylene (Total) | ug/L | 60 | 56.1 | 93 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 92 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 103 | 70-130 | |
| Toluene-d8 (S) | % | | | 100 | 70-130 | |

MATRIX SPIKE SAMPLE: 2627261

| Parameter | Units | 35423873003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 20 | 10.0 | 50 | 70-130 | J(M1) |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 20 | 11.7 | 59 | 70-130 | J(M1) |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 20 | 11.6 | 58 | 68-125 | J(M1) |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 20 | 12.1 | 60 | 70-130 | J(M1) |
| 1,1-Dichloroethane | ug/L | 0.50 U | 20 | 12.3 | 62 | 70-130 | J(M1) |
| 1,1-Dichloroethene | ug/L | 0.50 U | 20 | 14.0 | 70 | 66-133 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 20 | 10.8 | 54 | 62-127 | J(M1) |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 20 | 11.9 | 60 | 70-130 | J(M1) |
| 1,2-Dichloroethane | ug/L | 0.50 U | 20 | 11.6 | 58 | 70-130 | J(M1) |
| 1,2-Dichloropropane | ug/L | 0.50 U | 20 | 11.7 | 59 | 70-130 | J(M1) |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 20 | 12.0 | 60 | 70-130 | J(M1) |
| 2-Butanone (MEK) | ug/L | 5.0 U | 40 | 24.5 | 61 | 47-143 | |
| 2-Hexanone | ug/L | 5.0 U | 40 | 28.2 | 71 | 48-145 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 40 | 26.0 | 65 | 57-132 | |
| Acetone | ug/L | 10.0 U | 40 | 27.2 | 68 | 46-148 | |
| Acrylonitrile | ug/L | 5.0 U | 200 | 152 | 76 | 60-143 | |
| Benzene | ug/L | 0.55 I | 20 | 12.7 | 61 | 70-130 | J(M1) |
| Bromochloromethane | ug/L | 0.50 U | 20 | 12.9 | 65 | 70-130 | J(M1) |
| Bromodichloromethane | ug/L | 0.71 | 20 | 11.9 | 56 | 70-130 | J(M1) |
| Bromoform | ug/L | 0.50 U | 20 | 10.1 | 50 | 49-126 | |
| Bromomethane | ug/L | 0.50 U | 20 | 17.6 | 88 | 10-165 | |
| Carbon disulfide | ug/L | 5.0 U | 20 | 14.4 | 72 | 60-141 | |
| Carbon tetrachloride | ug/L | 0.50 U | 20 | 11.9 | 60 | 63-126 | J(M1) |
| Chlorobenzene | ug/L | 0.50 U | 20 | 12.4 | 62 | 70-130 | J(M1) |
| Chloroethane | ug/L | 0.50 U | 20 | 15.9 | 80 | 71-142 | |
| Chloroform | ug/L | 4.6 | 20 | 16.1 | 57 | 70-130 | J(M1) |

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

MATRIX SPIKE SAMPLE: 2627261

| Parameter | Units | 35423873003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chloromethane | ug/L | 0.62 U | 20 | 8.9 | 43 | 40-140 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 20 | 12.2 | 61 | 70-130 | J(M1) |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 20 | 9.9 | 49 | 70-130 | J(M1) |
| Dibromochloromethane | ug/L | 0.26 U | 20 | 9.6 | 48 | 62-118 | J(M1) |
| Dibromomethane | ug/L | 0.50 U | 20 | 11.7 | 59 | 70-130 | J(M1) |
| Ethylbenzene | ug/L | 6.8 | 20 | 18.9 | 61 | 70-130 | J(M1) |
| Iodomethane | ug/L | 0.50 U | 40 | 3.0 I | 8 | 10-164 | J(M1) |
| Methylene Chloride | ug/L | 2.5 U | 20 | 11.2 | 56 | 65-136 | J(M1) |
| Styrene | ug/L | 0.50 U | 20 | 12.0 | 60 | 70-130 | J(M1) |
| Tetrachloroethene | ug/L | 0.50 U | 20 | 12.3 | 62 | 64-134 | J(M1) |
| Toluene | ug/L | 0.50 U | 20 | 12.3 | 61 | 70-130 | J(M1) |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 20 | 12.0 | 60 | 68-127 | J(M1) |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 20 | 9.6 | 48 | 65-121 | J(M1) |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 20 | 11.4 | 57 | 42-129 | |
| Trichloroethene | ug/L | 0.50 U | 20 | 20.4 | 102 | 70-130 | |
| Trichlorofluoromethane | ug/L | 0.50 U | 20 | 12.8 | 64 | 65-135 | J(M1) |
| Vinyl acetate | ug/L | 1.0 U | 20 | 14.1 | 70 | 60-144 | |
| Vinyl chloride | ug/L | 0.50 U | 20 | 13.8 | 69 | 68-131 | |
| Xylene (Total) | ug/L | 1.5 U | 60 | 35.5 | 59 | 70-130 | MS |
| 1,2-Dichloroethane-d4 (S) | % | | | | 93 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 106 | 70-130 | |
| Toluene-d8 (S) | % | | | | 98 | 70-130 | |

SAMPLE DUPLICATE: 2627260

| Parameter | Units | 35423873002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 0.12 U | | 40 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 0.59 U | | 40 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 5.0 U | | 40 | |
| 2-Hexanone | ug/L | 5.0 U | 5.0 U | | 40 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 5.0 U | | 40 | |
| Acetone | ug/L | 10.0 U | 10.0 U | | 40 | |
| Acrylonitrile | ug/L | 5.0 U | 5.0 U | | 40 | |
| Benzene | ug/L | 25.7 | 24.5 | 5 | 40 | |
| Bromochloromethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Bromodichloromethane | ug/L | 0.27 U | 0.27 U | | 40 | |

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Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

SAMPLE DUPLICATE: 2627260

| Parameter | Units | 35423873002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Bromoform | ug/L | 0.50 U | 0.50 U | | 40 | |
| Bromomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Carbon disulfide | ug/L | 5.0 U | 5.0 U | | 40 | |
| Carbon tetrachloride | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloroform | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloromethane | ug/L | 0.62 U | 0.62 U | | 40 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 0.25 U | | 40 | |
| Dibromochloromethane | ug/L | 0.26 U | 0.26 U | | 40 | |
| Dibromomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Ethylbenzene | ug/L | 67.6 | 65.2 | 4 | 40 | |
| Iodomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Methylene Chloride | ug/L | 2.5 U | 2.5 U | | 40 | |
| Styrene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Tetrachloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Toluene | ug/L | 13.3 | 13.5 | 2 | 40 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 0.25 U | | 40 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 5.0 U | | 40 | |
| Trichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Trichlorofluoromethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Vinyl acetate | ug/L | 1.0 U | 1.0 U | | 40 | |
| Vinyl chloride | ug/L | 0.50 U | 0.50 U | | 40 | |
| Xylene (Total) | ug/L | 257 | 258 | 0 | 40 | |
| 1,2-Dichloroethane-d4 (S) | % | 94 | 91 | 4 | 40 | |
| 4-Bromofluorobenzene (S) | % | 108 | 109 | 1 | 40 | |
| Toluene-d8 (S) | % | 107 | 103 | 4 | 40 | |

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(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 483508 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35422069001, 35422069002, 35422069004

METHOD BLANK: 2616370 Matrix: Water
Associated Lab Samples: 35422069001, 35422069002, 35422069004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | 0.0064 U | 0.020 | 0.0064 | 10/09/18 01:05 | |
| 1,2-Dibromoethane (EDB) | ug/L | 0.0075 U | 0.010 | 0.0075 | 10/09/18 01:05 | |

LABORATORY CONTROL SAMPLE: 2616371

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | .25 | 0.25 | 101 | 60-140 | |
| 1,2-Dibromoethane (EDB) | ug/L | .25 | 0.25 | 100 | 60-140 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2617124 2617125

| Parameter | Units | 35421718001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | 0.0063 U | .44 | .44 | 0.52 | 0.49 | 119 | 111 | 60-140 | 7 | 40 | |
| 1,2-Dibromoethane (EDB) | ug/L | 0.0074 U | .44 | .44 | 0.49 | 0.41 | 113 | 95 | 60-140 | 18 | 40 | |

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(386)672-5668

## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 484395 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2620559 | Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 5.0 U | 5.0 | 5.0 | 10/10/18 15:18 | |

LABORATORY CONTROL SAMPLE: 2620560

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 300 | 291 | 97 | 90-110 | |

SAMPLE DUPLICATE: 2620561

| Parameter | Units | 35422044003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 214 | 213 | 0 | 5 | |

SAMPLE DUPLICATE: 2620562

| Parameter | Units | 35421419009 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 628 | 624 | 1 | 5 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 485475
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2626742 Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 2.5 U | 5.0 | 2.5 | 10/15/18 09:54 | |
| Sulfate | mg/L | 2.5 U | 5.0 | 2.5 | 10/15/18 09:54 | |

LABORATORY CONTROL SAMPLE: 2626743

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 50 | 48.0 | 96 | 90-110 | |
| Sulfate | mg/L | 50 | 48.1 | 96 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626744 2626745

| Parameter | Units | 35421884001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 99.1 | 50 | 50 | 149 | 153 | 99 | 108 | 90-110 | 3 | 20 | L |
| Sulfate | mg/L | 9.9 | 50 | 50 | 52.7 | 56.7 | 86 | 93 | 90-110 | 7 | 20 | J(M1) |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2626746 2626747

| Parameter | Units | 35422125003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 5.8 | 50 | 50 | 51.4 | 52.4 | 91 | 93 | 90-110 | 2 | 20 | |
| Sulfate | mg/L | 2.5 U | 50 | 50 | 47.0 | 48.0 | 89 | 91 | 90-110 | 2 | 20 | J(M1) |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 483534 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2616606 Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.035 U | 0.050 | 0.035 | 10/06/18 12:08 | |

LABORATORY CONTROL SAMPLE: 2616607

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 1 | 1.1 | 106 | 90-110 | |

MATRIX SPIKE SAMPLE: 2616609

| Parameter | Units | 35422361001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.035 U | 1 | 1.5 | 147 | 90-110 | J(M1) |

SAMPLE DUPLICATE: 2616608

| Parameter | Units | 35422361001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.035 U | 0.40 | | 20 | |

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## QUALITY CONTROL DATA

Project: Central Cty
Pace Project No.: 35422069

QC Batch: 483473 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35422069001, 35422069002

METHOD BLANK: 2616081 Matrix: Water
Associated Lab Samples: 35422069001, 35422069002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.025 U | 0.050 | 0.025 | 10/05/18 17:59 | |

SAMPLE DUPLICATE: 2616083

| Parameter | Units | 35421998001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 2.0 | 2.1 | 9 | 20 | |

SAMPLE DUPLICATE: 2616085

| Parameter | Units | 35422095001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 2.8 | 2.7 | 2 | 20 | |

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# QUALIFIERS

Project: Central Cty
Pace Project No.: 35422069

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-O | Pace Analytical Services - Ormond Beach |
| PASI-Tp | Pace Analytical Services - Tampa |

## ANALYTE QUALIFIERS

| | |
|---|---|
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| U | Compound was analyzed for but not detected. |
| J(L1) | Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high. |
| J(M1) | Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| L | Off-scale high. Actual value is known to be greater than value given. |
| MS | Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result. |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Central Cty
Pace Project No.: 35422069

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **35422069001** | **MW-16 (23032)** | | | | |
| **35422069002** | **MW-17 (23033)** | | | | |
| **35422069001** | **MW-16 (23032)** | EPA 8011 | 483508 | EPA 8011 | 483847 |
| **35422069002** | **MW-17 (23033)** | EPA 8011 | 483508 | EPA 8011 | 483847 |
| **35422069004** | **Trip Blank #2** | EPA 8011 | 483508 | EPA 8011 | 483847 |
| **35422069001** | **MW-16 (23032)** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35422069002** | **MW-17 (23033)** | EPA 3010 | 483216 | EPA 6010 | 483221 |
| **35422069001** | **MW-16 (23032)** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35422069002** | **MW-17 (23033)** | EPA 3010 | 483215 | EPA 6020 | 483222 |
| **35422069001** | **MW-16 (23032)** | EPA 7470 | 485692 | EPA 7470 | 485966 |
| **35422069002** | **MW-17 (23033)** | EPA 7470 | 485692 | EPA 7470 | 485966 |
| **35422069001** | **MW-16 (23032)** | EPA 8260 | 485456 | | |
| **35422069002** | **MW-17 (23033)** | EPA 8260 | 485456 | | |
| **35422069003** | **Trip Blank #1** | EPA 8260 | 485456 | | |
| **35422069001** | **MW-16 (23032)** | SM 2540C | 484395 | | |
| **35422069002** | **MW-17 (23033)** | SM 2540C | 484395 | | |
| **35422069001** | **MW-16 (23032)** | EPA 300.0 | 485475 | | |
| **35422069002** | **MW-17 (23033)** | EPA 300.0 | 485475 | | |
| **35422069001** | **MW-16 (23032)** | EPA 350.1 | 483534 | | |
| **35422069002** | **MW-17 (23033)** | EPA 350.1 | 483534 | | |
| **35422069001** | **MW-16 (23032)** | EPA 353.2 | 483473 | | |
| **35422069002** | **MW-17 (23033)** | EPA 353.2 | 483473 | | |



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# CHAIN-OF-CUSTODY / Analytical Reques

WO# : 35422069

35422069

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fiel

| Section A<br>Required Client Information: | | Section B<br>Required Project Information: | | Section C<br>Invoice Information: | |
|---|---|---|---|---|---|
| Company: | Sarasota County | Report To: | Mr. Cesar Rodriguez | Attention: | |
| Address: | 1255 T. Mabry Carlton Parkway | Copy To: | | Company Name: | |
| Venice, FL 34292 | | | | Address: | |
| Email: | | Purchase Order #: | 180736 | Pace Quote: | |
| Phone: | 941-650-9834 Fax: | Project Name: | Central Cty MW wells Appdx 1 | Pace Project Manager: | martha.montero@pacelabs.com, |
| Requested Due Date: | | Project #: | | Pace Profile #: | 833 #1 |

| Regulatory Agency |
|---|
| |
| State / Location |
| FL |

| ITEM # | SAMPLE ID<br>One Character per box.<br>(A-Z, 0-9 / , -)<br>Sample Ids must be unique | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analyses Test Y/N | VOC by 8260 (HCL) | EDB and DBCP EPA 8011 (Unpreserved) | NH3 (H2SO4) | metals by 6010/6020/7470 Fe,Hg,Na,Mn (HNO3) | TDS NO3 Cl SO4 (Unpreserved) | Residual Chlorine (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ~~MW-1R (20585)~~ | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | |
| 2 | ~~MW-8A (21453)~~ | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | |
| 3 | ~~MW-9 (4509)~~ | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | |
| 4 | ~~MW-10R (4510)~~ | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | |
| 5 | ~~MW-15 (23031)~~ | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | |
| 6 | MW-16 (23032) | WT | | 10/4/18 | 1230 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | |
| 7 | MW-17 (23033) | WT | | 10/4/18 | 1020 | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | |
| 8 | ~~MW-18R (29095)~~ | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | |
| 9 | ~~MW-19A(27140)~~ | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | |
| 10 | ~~MW-20A (27141)~~ | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | |
| 11 | ~~field blank~~ | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | |
| 12 | ~~dup #1~~ | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | |

Please use ADAPT, analyze all compounds on App 1

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|---|---|
| Central county Monitoring wells Adapt | | 10/4/18 | 1415 | | 10/4/18 | 1430 |
| | | 10/4/18 | 1610 | Pace | 10/4/18 | 1610 |
| | | | | | | |
| | | | | | | |

| SAMPLE CONDITIONS | | | |
|---|---|---|---|
| TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| TW3 | | | |
| 2.1 | Y | N | X |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Alison Eggleston

SIGNATURE of SAMPLER: DATE Signed:

Pace Analytical
www.pacelabs.com

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | Sarasota County | Report To: | Mr. Cesar Rodriguez | Attention: | |
| Address: | 1255 T. Mabry Carlton Parkway | Copy To: | | Company Name: | |
| Venice, FL 34292 | | | | Address: | |
| Email: | | Purchase Order #: | 180736 | Pace Quote: | |
| Phone: | 941-650-9834 Fax: | Project Name: | Central Cty MW wells Appdx 1 | Pace Project Manager: | martha.montero@pacelabs.com, |
| Requested Due Date: | | Project #: | | Pace Profile #: | 833 #1 |

| Regulatory Agency |
|---|
| |
| State / Location |
| FL |

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Analyses Test Y/N | VOC by 8260 (HCL) | EDB and DBCP EPA 8011 (Unpreserved) | NH3 (H2SO4) | metals by 6010/6020/7470 Fe,Hg,Na,Mn (HNO3) | TDS NO3 Cl SO4 (Unpreserved) | Residual Chlorine (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | ~~MW-3 4503~~ OE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 14 | ~~MW-5 4505~~ OE | WT | | | | | | | | | | | | | | | | | 3 | 2 | 1 | 1 | 1 | | |
| 15 | ~~Trip Blank 8260 #1~~ OE | WT | | 10/4/18 | | | | | | | | | | | | | | | 2 | | | | | | |
| 16 | Trip Blank 8260 #2 | WT | | 10/4/18 | | | | | | | | | | | | | | | 2 | | | | | | |
| 17 | ~~Trip Blank 8260 #3~~ OE | WT | | | | | | | | | | | | | | | | | 2 | | | | | | |
| 18 | ~~Trip Blank 8260 #4~~ OE | WT | | | | | | | | | | | | | | | | | 2 | | | | | | |
| 19 | ~~Trip Blank 8011 #1~~ OE | WT | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 20 | Trip Blank 8011 #2 | WT | | 10/4/18 | | | | | | | | | | | | | | | | 2 | | | | | |
| 21 | ~~Trip Blank 8011 #3~~ OE | WT | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 22 | ~~Trip Blank 8011 #3~~ OE | WT | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 23 | | WT | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | WT | | | | | | | | | | | | | | | | | | | | | | | |

Please use ADAPT, analyze all compounds on App 1

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Central county Monitoring wells Adapt | Alison Eggleston | 10/4/18 | 1415 | | 10/4/18 | 1430 | T23 | | | |
| | | 10/4/18 | 1610 | | 10/4/18 | 1610 | 2.1 | Y | ~ | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|
| PRINT Name of SAMPLER: | Alison Eggleston | | | | |
| SIGNATURE of SAMPLER: | DATE Signed: | | | | |

| Pace Analytical Florida Laboratory | Document Name: Sample Condition Upon Receipt Form | Document Revised: May 30, 2018 |
|---|---|---|
| | Document No.: F-FL-C-007 rev. 13 | Issuing Authority: Pace Florida Quality Office |

## Sample Condition Upon Receipt Form (SCUR)

**Project #** WO#: 35422069

**Project Manager:** PM: MIM Due Date: 10/18/18

**Client:** CLIENT: SARCOU

**Date and Initials of person:**
Examining contents: CMG
Label: 10/4/18
Deliver:
pH: CMG

Thermometer Used: T-203 Date: 10/4/18 Time: 1610 Initials: MVL

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

| | | | | | |
|---|---|---|---|---|---|
| Cooler #1 Temp.°C | 2.1 (Visual) | 0.0 (Correction Factor) | 2.1 (Actual) | ☒ | Samples on ice, cooling process has begun |
| Cooler #2 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ | Samples on ice, cooling process has begun |
| Cooler #3 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ | Samples on ice, cooling process has begun |
| Cooler #4 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ | Samples on ice, cooling process has begun |
| Cooler #5 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ | Samples on ice, cooling process has begun |
| Cooler #6 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ | Samples on ice, cooling process has begun |

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

**Shipping Method:** ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

**Billing:** ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

**Tracking #**

**Custody Seal on Cooler/Box Present:** ☐ Yes ☒ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

**Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

**Samples shorted to lab (If Yes, complete)** Shorted Date: Shorted Time: Qty:

| | | Comments: |
|---|---|---|
| Chain of Custody Present | ☑ Yes ☐ No ☐ N/A | |
| Chain of Custody Filled Out | ☑ Yes ☐ No ☐ N/A | |
| Relinquished Signature & Sampler Name COC | ☐ Yes ☑ No ☐ N/A | No Sampler Name |
| Samples Arrived within Hold Time | ☑ Yes ☐ No ☐ N/A | |
| Rush TAT requested on COC | ☐ Yes ☑ No ☐ N/A | |
| Sufficient Volume | ☑ Yes ☐ No ☐ N/A | |
| Correct Containers Used | ☑ Yes ☐ No ☐ N/A | |
| Containers Intact | ☑ Yes ☐ No ☐ N/A | |
| Sample Labels match COC (sample IDs & date/time of collection) | ☑ Yes ☐ No ☐ N/A | |
| All containers needing acid/base preservation have been checked. | ☑ Yes ☐ No ☐ N/A | Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials: |
| All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates | ☑ Yes ☐ No ☐ N/A | |
| Headspace in VOA Vials? ( >6mm): | ☑ Yes ☐ No ☐ N/A | 2/2 Trip Blank vials |
| Trip Blank Present: | ☑ Yes ☐ No ☐ N/A | |

**Client Notification/ Resolution:**
Person Contacted: Date/Time:

**Comments/ Resolution (use back for additional comments):**

Project Manager Review: Date:

**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

November 14, 2018

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

**REVIEWED**
***By Cesar Rodriguez-Palacios at 1:24 pm, Jan 08, 2019***

RE: Project: Surface Central County Solid W
Pace Project No.: 35427487

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on October 31, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County



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Ormond Beach, FL 32174
(386)672-5668

# CERTIFICATIONS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Ormond Beach Certification IDs**

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

**Tampa Certification IDs**

110 South Bayview Blvd., Tampa, FL 34677
Florida Certification #:E84129

## REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
(386)672-5668

## SAMPLE SUMMARY

Project: Surface Central County Solid W
Pace Project No.: 35427487

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **35427487001** | **(28824) Pond -1** | Water | 10/31/18 10:15 | 10/31/18 14:40 |
| **35427487002** | **(28825) Pond -2** | Water | 10/31/18 09:10 | 10/31/18 14:40 |
| **35427487003** | **Duplicate** | Water | 10/31/18 10:15 | 10/31/18 14:40 |
| **35427487004** | **Field Blank** | Water | 10/31/18 09:00 | 10/31/18 14:40 |
| **35427487005** | **8260 Trip Blank** | Water | 10/31/18 09:00 | 10/31/18 14:40 |
| **35427487006** | **8011 Trip Blank** | Water | 10/31/18 09:00 | 10/31/18 14:40 |



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Ormond Beach, FL 32174
(386)672-5668

## SAMPLE ANALYTE COUNT

Project: Surface Central County Solid W
Pace Project No.: 35427487

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **35427487001** | **(28824) Pond -1** | EPA 8011 | SMH | 2 | PASI-O |
| | | EPA 6010 | LEC | 10 | PASI-O |
| | | EPA 6020 | FDV, KPP | 8 | PASI-O |
| | | EPA 8260 | SK1 | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | SM 2540D | LF | 1 | PASI-Tp |
| | | EPA 1631E | CLG | 1 | PASI-Tp |
| | | SM 5210B | AGS | 1 | PASI-O |
| | | SM10200 | FGF | 1 | PASI-O |
| | | TKN+NOx Calculation | JMD | 1 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 351.2 | SEW | 1 | PASI-O |
| | | EPA 353.2 | JWH | 2 | PASI-O |
| | | EPA 365.4 | SEW | 1 | PASI-O |
| | | SM 5310B | FGF | 1 | PASI-O |
| | | FLDEP SOP 10/03/83 | CLL | 1 | PASI-O |
| **35427487002** | **(28825) Pond -2** | EPA 8011 | SMH | 2 | PASI-O |
| | | EPA 6010 | LEC | 10 | PASI-O |
| | | EPA 6020 | FDV, KPP | 8 | PASI-O |
| | | EPA 8260 | SK1 | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | SM 2540D | LF | 1 | PASI-Tp |
| | | EPA 1631E | CLG | 1 | PASI-Tp |
| | | SM 5210B | AGS | 1 | PASI-O |
| | | SM10200 | FGF | 1 | PASI-O |
| | | TKN+NOx Calculation | JMD | 1 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 351.2 | SEW | 1 | PASI-O |
| | | EPA 353.2 | JWH | 2 | PASI-O |
| | | EPA 365.4 | SEW | 1 | PASI-O |
| | | SM 5310B | FGF | 1 | PASI-O |
| | | FLDEP SOP 10/03/83 | CLL | 1 | PASI-O |
| **35427487003** | **Duplicate** | EPA 8011 | SMH | 2 | PASI-O |
| | | EPA 6010 | JWP | 10 | PASI-O |
| | | EPA 6020 | FDV | 8 | PASI-O |
| | | EPA 8260 | SK1 | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |



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(386)672-5668

## SAMPLE ANALYTE COUNT

Project: Surface Central County Solid W
Pace Project No.: 35427487

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | SM 2540D | LF | 1 | PASI-Tp |
| | | EPA 1631E | CLG | 1 | PASI-Tp |
| | | SM 5210B | AGS | 1 | PASI-O |
| | | SM10200 | FGF | 1 | PASI-O |
| | | TKN+NOx Calculation | JMD | 1 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 351.2 | SEW | 1 | PASI-O |
| | | EPA 353.2 | JWH | 2 | PASI-O |
| | | EPA 365.4 | SEW | 1 | PASI-O |
| | | SM 5310B | FGF | 1 | PASI-O |
| | | FLDEP SOP 10/03/83 | CLL | 1 | PASI-O |
| **35427487004** | **Field Blank** | EPA 8011 | SMH | 2 | PASI-O |
| | | EPA 6010 | JWP | 10 | PASI-O |
| | | EPA 6020 | FDV | 8 | PASI-O |
| | | EPA 8260 | SK1 | 48 | PASI-O |
| | | SM 2540C | LF | 1 | PASI-Tp |
| | | SM 2540D | LF | 1 | PASI-Tp |
| | | EPA 1631E | CLG | 1 | PASI-Tp |
| | | SM 5210B | AGS | 1 | PASI-O |
| | | SM10200 | FGF | 1 | PASI-O |
| | | TKN+NOx Calculation | JMD | 1 | PASI-O |
| | | EPA 350.1 | CLL | 1 | PASI-O |
| | | EPA 351.2 | SEW | 1 | PASI-O |
| | | EPA 353.2 | JWH | 2 | PASI-O |
| | | EPA 365.4 | SEW | 1 | PASI-O |
| | | SM 5310B | FGF | 1 | PASI-O |
| | | FLDEP SOP 10/03/83 | CLL | 1 | PASI-O |
| **35427487005** | **8260 Trip Blank** | EPA 8260 | SK1 | 48 | PASI-O |
| **35427487006** | **8011 Trip Blank** | EPA 8011 | SMH | 2 | PASI-O |



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Ormond Beach, FL 32174
(386)672-5668

## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: (28824) Pond -1** **Lab ID: 35427487001** Collected: 10/31/18 10:15 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.01** | Std. Units | | | 1 | | 10/31/18 10:15 | | |
| Field Temperature | **21.35** | deg C | | | 1 | | 10/31/18 10:15 | | |
| Field Specific Conductance | **282** | umhos/cm | | | 1 | | 10/31/18 10:15 | | |
| Oxygen, Dissolved | **2.81** | mg/L | | | 1 | | 10/31/18 10:15 | 7782-44-7 | |
| Turbidity | **2.22** | NTU | | | 1 | | 10/31/18 10:15 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 11/05/18 09:57 | 11/06/18 08:11 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0073 U** | ug/L | 0.0097 | 0.0073 | 1 | 11/05/18 09:57 | 11/06/18 08:11 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **5.5 U** | ug/L | 15.0 | 5.5 | 1 | 11/06/18 01:22 | 11/06/18 17:14 | 7440-36-0 | |
| Arsenic | **7.1 U** | ug/L | 10.0 | 7.1 | 1 | 11/06/18 01:22 | 11/06/18 17:14 | 7440-38-2 | |
| Barium | **17.3** | ug/L | 10.0 | 0.84 | 1 | 11/06/18 01:22 | 11/06/18 17:14 | 7440-39-3 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 11/06/18 01:22 | 11/06/18 17:14 | 7440-47-3 | |
| Cobalt | **0.96 U** | ug/L | 10.0 | 0.96 | 1 | 11/06/18 01:22 | 11/06/18 17:14 | 7440-48-4 | |
| Iron | **137** | ug/L | 40.0 | 9.2 | 1 | 11/06/18 01:22 | 11/06/18 17:14 | 7439-89-6 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 11/06/18 01:22 | 11/06/18 17:14 | 7440-02-0 | |
| Sodium | **6.1** | mg/L | 2.0 | 0.27 | 1 | 11/06/18 01:22 | 11/06/18 17:14 | 7440-23-5 | |
| Tot Hardness asCaCO3 (SM 2340B | **138** | mg/L | | 0.51 | 1 | 11/06/18 01:22 | 11/06/18 17:14 | | |
| Vanadium | **1.8 I** | ug/L | 10.0 | 1.0 | 1 | 11/06/18 01:22 | 11/06/18 17:14 | 7440-62-2 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Beryllium | **0.050 U** | ug/L | 0.10 | 0.050 | 1 | 11/06/18 01:18 | 11/06/18 10:59 | 7440-41-7 | |
| Cadmium | **0.050 U** | ug/L | 0.10 | 0.050 | 1 | 11/06/18 01:18 | 11/06/18 07:16 | 7440-43-9 | |
| Copper | **0.93 U** | ug/L | 1.0 | 0.93 | 1 | 11/06/18 01:18 | 11/06/18 07:16 | 7440-50-8 | |
| Lead | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 11/06/18 01:18 | 11/06/18 07:16 | 7439-92-1 | |
| Selenium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 11/06/18 01:18 | 11/06/18 10:59 | 7782-49-2 | |
| Silver | **0.050 U** | ug/L | 0.10 | 0.050 | 1 | 11/06/18 01:18 | 11/06/18 07:16 | 7440-22-4 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 11/06/18 01:18 | 11/06/18 07:16 | 7440-28-0 | |
| Zinc | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | 11/10/18 01:20 | 11/10/18 15:35 | 7440-66-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 11/09/18 05:18 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 05:18 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 11/09/18 05:18 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 11/09/18 05:18 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 11/09/18 05:18 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 05:18 | 78-93-3 | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 05:18 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 11/09/18 05:18 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 11/09/18 05:18 | 75-00-3 | |

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Ormond Beach, FL 32174
(386)672-5668

## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: (28824) Pond -1** **Lab ID: 35427487001** Collected: 10/31/18 10:15 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 11/09/18 05:18 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 11/09/18 05:18 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 11/09/18 05:18 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 05:18 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 11/09/18 05:18 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 11/09/18 05:18 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 05:18 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 11/09/18 05:18 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 11/09/18 05:18 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 05:18 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 11/09/18 05:18 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 11/09/18 05:18 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 11/09/18 05:18 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:18 | 75-01-4 | |
| Xylene (Total) | **1.0 U** | ug/L | 3.0 | 1.0 | 1 | | 11/09/18 05:18 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | % | 70-130 | | 1 | | 11/09/18 05:18 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 99 | % | 70-130 | | 1 | | 11/09/18 05:18 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 11/09/18 05:18 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **194** | mg/L | 5.0 | 5.0 | 1 | | 11/02/18 15:00 | | |
| **2540D Total Susp. Solids Tampa** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **7.0** | mg/L | 5.0 | 5.0 | 1 | | 11/06/18 10:30 | | |
| **1631E Mercury,Low Level Tampa** | Analytical Method: EPA 1631E Preparation Method: EPA 1631E | | | | | | | | |
| Mercury | **0.458 I** | ng/L | 0.50 | 0.25 | 1 | 11/05/18 14:15 | 11/06/18 13:23 | 7439-97-6 | |

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(386)672-5668

## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: (28824) Pond -1** **Lab ID: 35427487001** Collected: 10/31/18 10:15 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **5210B BOD, 5 day** | Analytical Method: SM 5210B | | | | | | | | |
| BOD, 5 day | **2.0 U** | mg/L | 2.0 | 2.0 | 1 | 11/01/18 11:05 | 11/06/18 17:22 | | |
| **Chlorophyll & Pheophytin** | Analytical Method: SM10200 Preparation Method: SM10200 | | | | | | | | |
| Chlorophyll a | **2.2 U** | ug/L | 5.0 | 2.2 | 1 | 11/01/18 10:20 | 11/06/18 16:30 | | |
| **Total Nitrogen Calculation** | Analytical Method: TKN+NOx Calculation | | | | | | | | |
| Total Nitrogen | **0.74** | mg/L | 0.50 | 0.086 | 1 | | 11/13/18 16:06 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.035 U** | mg/L | 0.050 | 0.035 | 1 | | 11/03/18 11:18 | 7664-41-7 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 | | | | | | | | |
| Nitrogen, Kjeldahl, Total | **0.74** | mg/L | 0.50 | 0.086 | 1 | 11/12/18 10:17 | 11/13/18 09:59 | 7727-37-9 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, NO2 plus NO3 | **0.033 U** | mg/L | 0.050 | 0.033 | 1 | | 11/01/18 07:52 | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 11/01/18 07:52 | 14797-55-8 | |
| **365.4 Phosphorus, Total** | Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 | | | | | | | | |
| Phosphorus, Total (as P) | **0.050 U** | mg/L | 0.10 | 0.050 | 1 | 11/12/18 10:17 | 11/13/18 09:59 | 7723-14-0 | |
| **5310B TOC** | Analytical Method: SM 5310B | | | | | | | | |
| Total Organic Carbon | **11.8** | mg/L | 1.0 | 0.50 | 1 | | 11/08/18 01:51 | 7440-44-0 | |
| **Un-ionized Ammonia, Ammonium** | Analytical Method: FLDEP SOP 10/03/83 | | | | | | | | |
| Nitrogen, Ammonia (Unionized) | **0.020 U** | mg/L | 0.020 | 0.020 | 1 | | 11/13/18 12:00 | | |

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## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: (28825) Pond -2** **Lab ID: 35427487002** Collected: 10/31/18 09:10 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **7.38** | Std. Units | | | 1 | | 10/31/18 09:10 | | |
| Field Temperature | **22.93** | deg C | | | 1 | | 10/31/18 09:10 | | |
| Field Specific Conductance | **290** | umhos/cm | | | 1 | | 10/31/18 09:10 | | |
| Oxygen, Dissolved | **3.58** | mg/L | | | 1 | | 10/31/18 09:10 | 7782-44-7 | |
| Turbidity | **5.74** | NTU | | | 1 | | 10/31/18 09:10 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 11/05/18 09:57 | 11/06/18 08:26 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0072 U** | ug/L | 0.0096 | 0.0072 | 1 | 11/05/18 09:57 | 11/06/18 08:26 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **5.5 U** | ug/L | 15.0 | 5.5 | 1 | 11/06/18 01:22 | 11/06/18 17:26 | 7440-36-0 | |
| Arsenic | **7.1 U** | ug/L | 10.0 | 7.1 | 1 | 11/06/18 01:22 | 11/06/18 17:26 | 7440-38-2 | |
| Barium | **17.1** | ug/L | 10.0 | 0.84 | 1 | 11/06/18 01:22 | 11/06/18 17:26 | 7440-39-3 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 11/06/18 01:22 | 11/06/18 17:26 | 7440-47-3 | |
| Cobalt | **0.96 U** | ug/L | 10.0 | 0.96 | 1 | 11/06/18 01:22 | 11/06/18 17:26 | 7440-48-4 | |
| Iron | **146** | ug/L | 40.0 | 9.2 | 1 | 11/06/18 01:22 | 11/06/18 17:26 | 7439-89-6 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 11/06/18 01:22 | 11/06/18 17:26 | 7440-02-0 | |
| Sodium | **7.8** | mg/L | 2.0 | 0.27 | 1 | 11/06/18 01:22 | 11/06/18 17:26 | 7440-23-5 | |
| Tot Hardness asCaCO3 (SM 2340B | **134** | mg/L | | 0.51 | 1 | 11/06/18 01:22 | 11/06/18 17:26 | | |
| Vanadium | **6.1 I** | ug/L | 10.0 | 1.0 | 1 | 11/06/18 01:22 | 11/06/18 17:26 | 7440-62-2 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Beryllium | **0.050 U** | ug/L | 0.10 | 0.050 | 1 | 11/06/18 01:18 | 11/06/18 11:00 | 7440-41-7 | |
| Cadmium | **0.050 U** | ug/L | 0.10 | 0.050 | 1 | 11/06/18 01:18 | 11/06/18 07:18 | 7440-43-9 | |
| Copper | **0.93 U** | ug/L | 1.0 | 0.93 | 1 | 11/06/18 01:18 | 11/06/18 07:18 | 7440-50-8 | |
| Lead | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 11/06/18 01:18 | 11/06/18 07:18 | 7439-92-1 | |
| Selenium | **0.77 I** | ug/L | 1.0 | 0.50 | 1 | 11/06/18 01:18 | 11/06/18 11:00 | 7782-49-2 | |
| Silver | **0.050 U** | ug/L | 0.10 | 0.050 | 1 | 11/06/18 01:18 | 11/06/18 07:18 | 7440-22-4 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 11/06/18 01:18 | 11/06/18 07:18 | 7440-28-0 | |
| Zinc | **5.9** | ug/L | 5.0 | 2.5 | 1 | 11/10/18 01:20 | 11/10/18 15:37 | 7440-66-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 11/09/18 05:43 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 05:43 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 11/09/18 05:43 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 11/09/18 05:43 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 11/09/18 05:43 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 05:43 | 78-93-3 | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 05:43 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 11/09/18 05:43 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 11/09/18 05:43 | 75-00-3 | |

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## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: (28825) Pond -2** **Lab ID: 35427487002** Collected: 10/31/18 09:10 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 11/09/18 05:43 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 11/09/18 05:43 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 11/09/18 05:43 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 05:43 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 11/09/18 05:43 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 11/09/18 05:43 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 05:43 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 11/09/18 05:43 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 11/09/18 05:43 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 05:43 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 11/09/18 05:43 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 11/09/18 05:43 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 11/09/18 05:43 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 05:43 | 75-01-4 | |
| Xylene (Total) | **1.0 U** | ug/L | 3.0 | 1.0 | 1 | | 11/09/18 05:43 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-130 | | 1 | | 11/09/18 05:43 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 99 | % | 70-130 | | 1 | | 11/09/18 05:43 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 11/09/18 05:43 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **211** | mg/L | 5.0 | 5.0 | 1 | | 11/02/18 15:01 | | |
| **2540D Total Susp. Solids Tampa** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **9.0** | mg/L | 5.0 | 5.0 | 1 | | 11/06/18 10:30 | | |
| **1631E Mercury,Low Level Tampa** | Analytical Method: EPA 1631E Preparation Method: EPA 1631E | | | | | | | | |
| Mercury | **1.76** | ng/L | 0.50 | 0.25 | 1 | 11/05/18 14:15 | 11/06/18 13:28 | 7439-97-6 | |

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## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: (28825) Pond -2** **Lab ID: 35427487002** Collected: 10/31/18 09:10 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **5210B BOD, 5 day** | Analytical Method: SM 5210B | | | | | | | | |
| BOD, 5 day | **2.0 U** | mg/L | 2.0 | 2.0 | 1 | 11/01/18 11:05 | 11/06/18 17:22 | | |
| **Chlorophyll & Pheophytin** | Analytical Method: SM10200 Preparation Method: SM10200 | | | | | | | | |
| Chlorophyll a | **17.3** | ug/L | 6.8 | 3.0 | 1 | 11/01/18 10:20 | 11/06/18 16:32 | | |
| **Total Nitrogen Calculation** | Analytical Method: TKN+NOx Calculation | | | | | | | | |
| Total Nitrogen | **0.82** | mg/L | 0.50 | 0.086 | 1 | | 11/13/18 16:06 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.035 U** | mg/L | 0.050 | 0.035 | 1 | | 11/03/18 11:20 | 7664-41-7 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 | | | | | | | | |
| Nitrogen, Kjeldahl, Total | **0.82** | mg/L | 0.50 | 0.086 | 1 | 11/12/18 10:17 | 11/13/18 10:00 | 7727-37-9 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, NO2 plus NO3 | **0.033 U** | mg/L | 0.050 | 0.033 | 1 | | 11/01/18 07:50 | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 11/01/18 07:50 | 14797-55-8 | |
| **365.4 Phosphorus, Total** | Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 | | | | | | | | |
| Phosphorus, Total (as P) | **0.050 U** | mg/L | 0.10 | 0.050 | 1 | 11/12/18 10:17 | 11/13/18 10:00 | 7723-14-0 | |
| **5310B TOC** | Analytical Method: SM 5310B | | | | | | | | |
| Total Organic Carbon | **12.1** | mg/L | 1.0 | 0.50 | 1 | | 11/08/18 02:03 | 7440-44-0 | |
| **Un-ionized Ammonia, Ammonium** | Analytical Method: FLDEP SOP 10/03/83 | | | | | | | | |
| Nitrogen, Ammonia (Unionized) | **0.020 U** | mg/L | 0.020 | 0.020 | 1 | | 11/13/18 12:00 | | |

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## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: Duplicate** **Lab ID: 35427487003** Collected: 10/31/18 10:15 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Field Data** | Analytical Method: | | | | | | | | |
| Field pH | **6.01** | Std. Units | | | 1 | | 10/31/18 10:15 | | |
| Field Temperature | **21.35** | deg C | | | 1 | | 10/31/18 10:15 | | |
| Field Specific Conductance | **282** | umhos/cm | | | 1 | | 10/31/18 10:15 | | |
| Oxygen, Dissolved | **2.81** | mg/L | | | 1 | | 10/31/18 10:15 | 7782-44-7 | |
| Turbidity | **2.22** | NTU | | | 1 | | 10/31/18 10:15 | | |
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 11/05/18 09:57 | 11/06/18 08:42 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0073 U** | ug/L | 0.0097 | 0.0073 | 1 | 11/05/18 09:57 | 11/06/18 08:42 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **5.5 U** | ug/L | 15.0 | 5.5 | 1 | 11/02/18 01:33 | 11/05/18 10:51 | 7440-36-0 | |
| Arsenic | **7.1 U** | ug/L | 10.0 | 7.1 | 1 | 11/02/18 01:33 | 11/05/18 10:51 | 7440-38-2 | |
| Barium | **19.5** | ug/L | 10.0 | 0.84 | 1 | 11/02/18 01:33 | 11/05/18 10:51 | 7440-39-3 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 11/02/18 01:33 | 11/05/18 10:51 | 7440-47-3 | |
| Cobalt | **0.96 U** | ug/L | 10.0 | 0.96 | 1 | 11/02/18 01:33 | 11/05/18 10:51 | 7440-48-4 | |
| Iron | **301** | ug/L | 40.0 | 9.2 | 1 | 11/02/18 01:33 | 11/05/18 10:51 | 7439-89-6 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 11/02/18 01:33 | 11/05/18 10:51 | 7440-02-0 | |
| Sodium | **6.5** | mg/L | 2.0 | 0.27 | 1 | 11/02/18 01:33 | 11/05/18 10:51 | 7440-23-5 | |
| Tot Hardness asCaCO3 (SM 2340B | **144** | mg/L | | 0.51 | 1 | 11/02/18 01:33 | 11/05/18 10:51 | | |
| Vanadium | **2.4 I** | ug/L | 10.0 | 1.0 | 1 | 11/02/18 01:33 | 11/05/18 10:51 | 7440-62-2 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Beryllium | **0.050 U** | ug/L | 0.10 | 0.050 | 1 | 11/02/18 01:31 | 11/02/18 11:19 | 7440-41-7 | |
| Cadmium | **0.050 U** | ug/L | 0.10 | 0.050 | 1 | 11/02/18 01:31 | 11/02/18 11:19 | 7440-43-9 | |
| Copper | **0.93 U** | ug/L | 1.0 | 0.93 | 1 | 11/02/18 01:31 | 11/02/18 11:19 | 7440-50-8 | |
| Lead | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 11/02/18 01:31 | 11/02/18 11:19 | 7439-92-1 | |
| Selenium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 11/02/18 01:31 | 11/02/18 11:19 | 7782-49-2 | |
| Silver | **0.050 U** | ug/L | 0.10 | 0.050 | 1 | 11/02/18 01:31 | 11/02/18 11:19 | 7440-22-4 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 11/02/18 01:31 | 11/02/18 11:19 | 7440-28-0 | |
| Zinc | **3.3 I** | ug/L | 5.0 | 2.5 | 1 | 11/02/18 01:31 | 11/02/18 11:19 | 7440-66-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 11/09/18 06:07 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:07 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 11/09/18 06:07 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 11/09/18 06:07 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 11/09/18 06:07 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:07 | 78-93-3 | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:07 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 11/09/18 06:07 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 11/09/18 06:07 | 75-00-3 | |

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## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: Duplicate** **Lab ID: 35427487003** Collected: 10/31/18 10:15 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 11/09/18 06:07 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 11/09/18 06:07 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 11/09/18 06:07 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:07 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 11/09/18 06:07 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 11/09/18 06:07 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:07 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 11/09/18 06:07 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 11/09/18 06:07 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:07 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 11/09/18 06:07 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 11/09/18 06:07 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 11/09/18 06:07 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:07 | 75-01-4 | |
| Xylene (Total) | **1.0 U** | ug/L | 3.0 | 1.0 | 1 | | 11/09/18 06:07 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-130 | | 1 | | 11/09/18 06:07 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 99 | % | 70-130 | | 1 | | 11/09/18 06:07 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 11/09/18 06:07 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **181** | mg/L | 5.0 | 5.0 | 1 | | 11/05/18 14:00 | | |
| **2540D Total Susp. Solids Tampa** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **16.0** | mg/L | 5.0 | 5.0 | 1 | | 11/06/18 10:31 | | |
| **1631E Mercury,Low Level Tampa** | Analytical Method: EPA 1631E Preparation Method: EPA 1631E | | | | | | | | |
| Mercury | **1.70** | ng/L | 0.50 | 0.25 | 1 | 11/05/18 14:15 | 11/06/18 13:33 | 7439-97-6 | |

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## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: Duplicate** **Lab ID: 35427487003** Collected: 10/31/18 10:15 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **5210B BOD, 5 day** | Analytical Method: SM 5210B | | | | | | | | |
| BOD, 5 day | **2.0 U** | mg/L | 2.0 | 2.0 | 1 | 11/01/18 11:06 | 11/06/18 17:23 | | |
| **Chlorophyll & Pheophytin** | Analytical Method: SM10200 Preparation Method: SM10200 | | | | | | | | |
| Chlorophyll a | **2.5 I** | ug/L | 5.0 | 2.2 | 1 | 11/01/18 11:20 | 11/06/18 16:34 | | |
| **Total Nitrogen Calculation** | Analytical Method: TKN+NOx Calculation | | | | | | | | |
| Total Nitrogen | **0.79** | mg/L | 0.50 | 0.086 | 1 | | 11/13/18 16:06 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.035 U** | mg/L | 0.050 | 0.035 | 1 | | 11/03/18 11:22 | 7664-41-7 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 | | | | | | | | |
| Nitrogen, Kjeldahl, Total | **0.79** | mg/L | 0.50 | 0.086 | 1 | 11/12/18 10:17 | 11/13/18 10:04 | 7727-37-9 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, NO2 plus NO3 | **0.033 U** | mg/L | 0.050 | 0.033 | 1 | | 11/01/18 07:54 | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 11/01/18 07:54 | 14797-55-8 | |
| **365.4 Phosphorus, Total** | Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 | | | | | | | | |
| Phosphorus, Total (as P) | **0.050 U** | mg/L | 0.10 | 0.050 | 1 | 11/12/18 10:17 | 11/13/18 10:04 | 7723-14-0 | |
| **5310B TOC** | Analytical Method: SM 5310B | | | | | | | | |
| Total Organic Carbon | **12.0** | mg/L | 1.0 | 0.50 | 1 | | 11/08/18 02:15 | 7440-44-0 | |
| **Un-ionized Ammonia, Ammonium** | Analytical Method: FLDEP SOP 10/03/83 | | | | | | | | |
| Nitrogen, Ammonia (Unionized) | **0.020 U** | mg/L | 0.020 | 0.020 | 1 | | 11/13/18 12:00 | | |

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## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: Field Blank** **Lab ID: 35427487004** Collected: 10/31/18 09:00 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0062 U** | ug/L | 0.019 | 0.0062 | 1 | 11/05/18 09:57 | 11/06/18 08:56 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0072 U** | ug/L | 0.0097 | 0.0072 | 1 | 11/05/18 09:57 | 11/06/18 08:56 | 106-93-4 | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | **5.5 U** | ug/L | 15.0 | 5.5 | 1 | 11/02/18 01:33 | 11/05/18 10:54 | 7440-36-0 | |
| Arsenic | **7.1 U** | ug/L | 10.0 | 7.1 | 1 | 11/02/18 01:33 | 11/05/18 10:54 | 7440-38-2 | |
| Barium | **0.84 U** | ug/L | 10.0 | 0.84 | 1 | 11/02/18 01:33 | 11/05/18 10:54 | 7440-39-3 | |
| Chromium | **1.7 U** | ug/L | 5.0 | 1.7 | 1 | 11/02/18 01:33 | 11/05/18 10:54 | 7440-47-3 | |
| Cobalt | **0.96 U** | ug/L | 10.0 | 0.96 | 1 | 11/02/18 01:33 | 11/05/18 10:54 | 7440-48-4 | |
| Iron | **9.2 U** | ug/L | 40.0 | 9.2 | 1 | 11/02/18 01:33 | 11/05/18 10:54 | 7439-89-6 | |
| Nickel | **2.1 U** | ug/L | 5.0 | 2.1 | 1 | 11/02/18 01:33 | 11/05/18 10:54 | 7440-02-0 | |
| Sodium | **0.27 U** | mg/L | 2.0 | 0.27 | 1 | 11/02/18 01:33 | 11/05/18 10:54 | 7440-23-5 | |
| Tot Hardness asCaCO3 (SM 2340B | **0.51 U** | mg/L | | 0.51 | 1 | 11/02/18 01:33 | 11/05/18 10:54 | | |
| Vanadium | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | 11/02/18 01:33 | 11/05/18 10:54 | 7440-62-2 | |
| **6020 MET ICPMS** | Analytical Method: EPA 6020 Preparation Method: EPA 3010 | | | | | | | | |
| Beryllium | **0.050 U** | ug/L | 0.10 | 0.050 | 1 | 11/02/18 01:31 | 11/02/18 11:21 | 7440-41-7 | |
| Cadmium | **0.050 U** | ug/L | 0.10 | 0.050 | 1 | 11/02/18 01:31 | 11/02/18 11:21 | 7440-43-9 | |
| Copper | **0.93 U** | ug/L | 1.0 | 0.93 | 1 | 11/02/18 01:31 | 11/02/18 11:21 | 7440-50-8 | |
| Lead | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 11/02/18 01:31 | 11/02/18 11:21 | 7439-92-1 | |
| Selenium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 11/02/18 01:31 | 11/02/18 11:21 | 7782-49-2 | |
| Silver | **0.050 U** | ug/L | 0.10 | 0.050 | 1 | 11/02/18 01:31 | 11/02/18 11:21 | 7440-22-4 | |
| Thallium | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | 11/02/18 01:31 | 11/02/18 11:21 | 7440-28-0 | |
| Zinc | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | 11/02/18 01:31 | 11/02/18 11:21 | 7440-66-6 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 11/09/18 06:32 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:32 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 11/09/18 06:32 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 11/09/18 06:32 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 11/09/18 06:32 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:32 | 78-93-3 | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:32 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 11/09/18 06:32 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 11/09/18 06:32 | 75-00-3 | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 11/09/18 06:32 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 11/09/18 06:32 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 11/09/18 06:32 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:32 | 110-57-6 | |

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(386)672-5668

## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: Field Blank** **Lab ID: 35427487004** Collected: 10/31/18 09:00 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 11/09/18 06:32 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 11/09/18 06:32 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:32 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 11/09/18 06:32 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 11/09/18 06:32 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:32 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 11/09/18 06:32 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 11/09/18 06:32 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 11/09/18 06:32 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:32 | 75-01-4 | |
| Xylene (Total) | **1.0 U** | ug/L | 3.0 | 1.0 | 1 | | 11/09/18 06:32 | 1330-20-7 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 106 | % | 70-130 | | 1 | | 11/09/18 06:32 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 98 | % | 70-130 | | 1 | | 11/09/18 06:32 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 11/09/18 06:32 | 2037-26-5 | |
| **2540C Total Diss. Solids Tampa** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **5.0 U** | mg/L | 5.0 | 5.0 | 1 | | 11/05/18 14:01 | | |
| **2540D Total Susp. Solids Tampa** | Analytical Method: SM 2540D | | | | | | | | |
| Total Suspended Solids | **5.0 U** | mg/L | 5.0 | 5.0 | 1 | | 11/06/18 10:31 | | |
| **1631E Mercury,Low Level Tampa** | Analytical Method: EPA 1631E Preparation Method: EPA 1631E | | | | | | | | |
| Mercury | **0.25 U** | ng/L | 0.50 | 0.25 | 1 | 11/05/18 14:15 | 11/06/18 11:53 | 7439-97-6 | |
| **5210B BOD, 5 day** | Analytical Method: SM 5210B | | | | | | | | |
| BOD, 5 day | **2.0 U** | mg/L | 2.0 | 2.0 | 1 | 11/01/18 11:07 | 11/06/18 17:23 | | |
| **Chlorophyll & Pheophytin** | Analytical Method: SM10200 Preparation Method: SM10200 | | | | | | | | |
| Chlorophyll a | **2.2 U** | ug/L | 5.0 | 2.2 | 1 | 11/01/18 12:44 | 11/06/18 16:38 | | |

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## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: Field Blank** **Lab ID: 35427487004** Collected: 10/31/18 09:00 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Total Nitrogen Calculation** | Analytical Method: TKN+NOx Calculation | | | | | | | | |
| Total Nitrogen | **0.086 U** | mg/L | 0.50 | 0.086 | 1 | | 11/13/18 16:06 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 | | | | | | | | |
| Nitrogen, Ammonia | **0.035 U** | mg/L | 0.050 | 0.035 | 1 | | 11/03/18 11:24 | 7664-41-7 | |
| **351.2 Total Kjeldahl Nitrogen** | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 | | | | | | | | |
| Nitrogen, Kjeldahl, Total | **0.086 U** | mg/L | 0.50 | 0.086 | 1 | 11/12/18 10:17 | 11/13/18 10:05 | 7727-37-9 | |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, NO2 plus NO3 | **0.033 U** | mg/L | 0.050 | 0.033 | 1 | | 11/01/18 07:46 | | |
| Nitrogen, Nitrate | **0.025 U** | mg/L | 0.050 | 0.025 | 1 | | 11/01/18 07:46 | 14797-55-8 | |
| **365.4 Phosphorus, Total** | Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 | | | | | | | | |
| Phosphorus, Total (as P) | **0.050 U** | mg/L | 0.10 | 0.050 | 1 | 11/12/18 10:17 | 11/13/18 10:05 | 7723-14-0 | |
| **5310B TOC** | Analytical Method: SM 5310B | | | | | | | | |
| Total Organic Carbon | **0.50 U** | mg/L | 1.0 | 0.50 | 1 | | 11/08/18 02:26 | 7440-44-0 | |
| **Un-ionized Ammonia, Ammonium** | Analytical Method: FLDEP SOP 10/03/83 | | | | | | | | |
| Nitrogen, Ammonia (Unionized) | **0.020 U** | mg/L | 0.020 | 0.020 | 1 | | 11/13/18 12:00 | | |

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## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: 8260 Trip Blank** **Lab ID: 35427487005** Collected: 10/31/18 09:00 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **10.0 U** | ug/L | 20.0 | 10.0 | 1 | | 11/09/18 06:57 | 67-64-1 | |
| Acrylonitrile | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:57 | 107-13-1 | |
| Benzene | **0.10 U** | ug/L | 1.0 | 0.10 | 1 | | 11/09/18 06:57 | 71-43-2 | |
| Bromochloromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 74-97-5 | |
| Bromodichloromethane | **0.27 U** | ug/L | 0.60 | 0.27 | 1 | | 11/09/18 06:57 | 75-27-4 | |
| Bromoform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 75-25-2 | |
| Bromomethane | **0.50 U** | ug/L | 5.0 | 0.50 | 1 | | 11/09/18 06:57 | 74-83-9 | |
| 2-Butanone (MEK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:57 | 78-93-3 | |
| Carbon disulfide | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:57 | 75-15-0 | |
| Carbon tetrachloride | **0.50 U** | ug/L | 3.0 | 0.50 | 1 | | 11/09/18 06:57 | 56-23-5 | |
| Chlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 108-90-7 | |
| Chloroethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 11/09/18 06:57 | 75-00-3 | |
| Chloroform | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 67-66-3 | |
| Chloromethane | **0.62 U** | ug/L | 1.0 | 0.62 | 1 | | 11/09/18 06:57 | 74-87-3 | |
| Dibromochloromethane | **0.26 U** | ug/L | 2.0 | 0.26 | 1 | | 11/09/18 06:57 | 124-48-1 | |
| Dibromomethane | **0.50 U** | ug/L | 2.0 | 0.50 | 1 | | 11/09/18 06:57 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 95-50-1 | |
| 1,4-Dichlorobenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:57 | 110-57-6 | |
| 1,1-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 75-34-3 | |
| 1,2-Dichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 107-06-2 | |
| 1,1-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 156-59-2 | |
| trans-1,2-Dichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 156-60-5 | |
| 1,2-Dichloropropane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 78-87-5 | |
| cis-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 11/09/18 06:57 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **0.25 U** | ug/L | 0.50 | 0.25 | 1 | | 11/09/18 06:57 | 10061-02-6 | |
| Ethylbenzene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 100-41-4 | |
| 2-Hexanone | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:57 | 591-78-6 | |
| Iodomethane | **0.50 U** | ug/L | 10.0 | 0.50 | 1 | | 11/09/18 06:57 | 74-88-4 | |
| Methylene Chloride | **2.5 U** | ug/L | 5.0 | 2.5 | 1 | | 11/09/18 06:57 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | **5.0 U** | ug/L | 10.0 | 5.0 | 1 | | 11/09/18 06:57 | 108-10-1 | |
| Styrene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **0.12 U** | ug/L | 0.50 | 0.12 | 1 | | 11/09/18 06:57 | 79-34-5 | |
| Tetrachloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 127-18-4 | |
| Toluene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 108-88-3 | |
| 1,1,1-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 71-55-6 | |
| 1,1,2-Trichloroethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 79-00-5 | |
| Trichloroethene | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 79-01-6 | |
| Trichlorofluoromethane | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 75-69-4 | |
| 1,2,3-Trichloropropane | **0.59 U** | ug/L | 2.0 | 0.59 | 1 | | 11/09/18 06:57 | 96-18-4 | |
| Vinyl acetate | **1.0 U** | ug/L | 10.0 | 1.0 | 1 | | 11/09/18 06:57 | 108-05-4 | |
| Vinyl chloride | **0.50 U** | ug/L | 1.0 | 0.50 | 1 | | 11/09/18 06:57 | 75-01-4 | |
| Xylene (Total) | **1.0 U** | ug/L | 3.0 | 1.0 | 1 | | 11/09/18 06:57 | 1330-20-7 | |

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## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: 8260 Trip Blank** **Lab ID: 35427487005** Collected: 10/31/18 09:00 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | % | 70-130 | | 1 | | 11/09/18 06:57 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 99 | % | 70-130 | | 1 | | 11/09/18 06:57 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 11/09/18 06:57 | 2037-26-5 | |

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## ANALYTICAL RESULTS

Project: Surface Central County Solid W
Pace Project No.: 35427487

**Sample: 8011 Trip Blank** **Lab ID: 35427487006** Collected: 10/31/18 09:00 Received: 10/31/18 14:40 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8011 GCS EDB and DBCP** | Analytical Method: EPA 8011 Preparation Method: EPA 8011 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | **0.0063 U** | ug/L | 0.020 | 0.0063 | 1 | 11/05/18 09:57 | 11/06/18 09:26 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | **0.0074 U** | ug/L | 0.0099 | 0.0074 | 1 | 11/05/18 09:57 | 11/06/18 09:26 | 106-93-4 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490396 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35427487003, 35427487004

METHOD BLANK: 2652412 Matrix: Water
Associated Lab Samples: 35427487003, 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 5.5 U | 15.0 | 5.5 | 11/05/18 09:46 | |
| Arsenic | ug/L | 7.1 U | 10.0 | 7.1 | 11/05/18 09:46 | |
| Barium | ug/L | 0.84 U | 10.0 | 0.84 | 11/05/18 09:46 | |
| Chromium | ug/L | 1.7 U | 5.0 | 1.7 | 11/05/18 09:46 | |
| Cobalt | ug/L | 0.96 U | 10.0 | 0.96 | 11/05/18 09:46 | |
| Iron | ug/L | 9.2 U | 40.0 | 9.2 | 11/05/18 09:46 | |
| Nickel | ug/L | 2.1 U | 5.0 | 2.1 | 11/05/18 09:46 | |
| Sodium | mg/L | 0.27 U | 2.0 | 0.27 | 11/05/18 09:46 | |
| Tot Hardness asCaCO3 (SM 2340B | mg/L | 0.51 U | | 0.51 | 11/05/18 09:46 | |
| Vanadium | ug/L | 1.0 U | 10.0 | 1.0 | 11/05/18 09:46 | |

LABORATORY CONTROL SAMPLE: 2652413

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 250 | 277 | 111 | 80-120 | |
| Arsenic | ug/L | 250 | 265 | 106 | 80-120 | |
| Barium | ug/L | 250 | 272 | 109 | 80-120 | |
| Chromium | ug/L | 250 | 274 | 110 | 80-120 | |
| Cobalt | ug/L | 250 | 273 | 109 | 80-120 | |
| Iron | ug/L | 2500 | 2710 | 108 | 80-120 | |
| Nickel | ug/L | 250 | 277 | 111 | 80-120 | |
| Sodium | mg/L | 12.5 | 13.6 | 109 | 80-120 | |
| Tot Hardness asCaCO3 (SM 2340B | mg/L | 82.7 | 88.8 | 107 | 80-120 | |
| Vanadium | ug/L | 250 | 271 | 108 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2652414 2652415

| Parameter | Units | 35426564001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ug/L | 5.5 U | 250 | 250 | 289 | 289 | 115 | 114 | 75-125 | 0 | 20 | |
| Arsenic | ug/L | 7.1 U | 250 | 250 | 282 | 283 | 111 | 111 | 75-125 | 0 | 20 | |
| Barium | ug/L | 23.1 | 250 | 250 | 296 | 300 | 109 | 111 | 75-125 | 1 | 20 | |
| Chromium | ug/L | 1.7 U | 250 | 250 | 274 | 276 | 110 | 111 | 75-125 | 1 | 20 | |
| Cobalt | ug/L | 0.96 U | 250 | 250 | 274 | 277 | 110 | 111 | 75-125 | 1 | 20 | |
| Iron | ug/L | 737 | 2500 | 2500 | 3450 | 3500 | 108 | 111 | 75-125 | 2 | 20 | |
| Nickel | ug/L | 2.1 U | 250 | 250 | 277 | 280 | 110 | 111 | 75-125 | 1 | 20 | |
| Sodium | mg/L | 161000 ug/L | 12.5 | 12.5 | 173 | 174 | 101 | 107 | 75-125 | 0 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2652414 2652415

| Parameter | Units | 35426564001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tot Hardness asCaCO3 (SM 2340B | mg/L | 526000 ug/L | 82.7 | 82.7 | 617 | 621 | 111 | 115 | 75-125 | 1 | 20 | |
| Vanadium | ug/L | 1.0 U | 250 | 250 | 278 | 281 | 111 | 112 | 75-125 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 491203 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35427487001, 35427487002

METHOD BLANK: 2656424 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 5.5 U | 15.0 | 5.5 | 11/06/18 17:09 | |
| Arsenic | ug/L | 7.1 U | 10.0 | 7.1 | 11/06/18 17:09 | |
| Barium | ug/L | 0.84 U | 10.0 | 0.84 | 11/06/18 17:09 | |
| Chromium | ug/L | 1.7 U | 5.0 | 1.7 | 11/06/18 17:09 | |
| Cobalt | ug/L | 0.96 U | 10.0 | 0.96 | 11/06/18 17:09 | |
| Iron | ug/L | 9.2 U | 40.0 | 9.2 | 11/06/18 17:09 | |
| Nickel | ug/L | 2.1 U | 5.0 | 2.1 | 11/06/18 17:09 | |
| Sodium | mg/L | 0.27 U | 2.0 | 0.27 | 11/06/18 17:09 | |
| Tot Hardness asCaCO3 (SM 2340B | mg/L | 0.51 U | | 0.51 | 11/06/18 17:09 | |
| Vanadium | ug/L | 1.0 U | 10.0 | 1.0 | 11/06/18 17:09 | |

LABORATORY CONTROL SAMPLE: 2656425

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 250 | 269 | 108 | 80-120 | |
| Arsenic | ug/L | 250 | 258 | 103 | 80-120 | |
| Barium | ug/L | 250 | 264 | 106 | 80-120 | |
| Chromium | ug/L | 250 | 264 | 106 | 80-120 | |
| Cobalt | ug/L | 250 | 268 | 107 | 80-120 | |
| Iron | ug/L | 2500 | 2640 | 105 | 80-120 | |
| Nickel | ug/L | 250 | 267 | 107 | 80-120 | |
| Sodium | mg/L | 12.5 | 13.1 | 105 | 80-120 | |
| Tot Hardness asCaCO3 (SM 2340B | mg/L | 82.7 | 87.0 | 105 | 80-120 | |
| Vanadium | ug/L | 250 | 264 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2656426 2656427

| Parameter | Units | 35427487001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ug/L | 5.5 U | 250 | 250 | 270 | 265 | 107 | 106 | 75-125 | 2 | 20 | |
| Arsenic | ug/L | 7.1 U | 250 | 250 | 261 | 261 | 101 | 101 | 75-125 | 0 | 20 | |
| Barium | ug/L | 17.3 | 250 | 250 | 283 | 281 | 106 | 105 | 75-125 | 1 | 20 | |
| Chromium | ug/L | 1.7 U | 250 | 250 | 267 | 264 | 107 | 106 | 75-125 | 1 | 20 | |
| Cobalt | ug/L | 0.96 U | 250 | 250 | 272 | 271 | 109 | 108 | 75-125 | 1 | 20 | |
| Iron | ug/L | 137 | 2500 | 2500 | 2860 | 2870 | 109 | 109 | 75-125 | 0 | 20 | |
| Nickel | ug/L | 2.1 U | 250 | 250 | 270 | 267 | 108 | 107 | 75-125 | 1 | 20 | |
| Sodium | mg/L | 6.1 | 12.5 | 12.5 | 19.7 | 19.7 | 109 | 109 | 75-125 | 0 | 20 | |

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(386)672-5668

## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2656426 2656427

| Parameter | Units | 35427487001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tot Hardness asCaCO3 (SM 2340B | mg/L | 138 | 82.7 | 82.7 | 228 | 225 | 108 | 105 | 75-125 | 1 | 20 | |
| Vanadium | ug/L | 1.8 I | 250 | 250 | 269 | 267 | 107 | 106 | 75-125 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490395 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35427487003, 35427487004

METHOD BLANK: 2652408 Matrix: Water
Associated Lab Samples: 35427487003, 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Beryllium | ug/L | 0.050 U | 0.10 | 0.050 | 11/03/18 11:50 | |
| Cadmium | ug/L | 0.050 U | 0.10 | 0.050 | 11/03/18 11:50 | |
| Copper | ug/L | 0.93 U | 1.0 | 0.93 | 11/03/18 11:50 | |
| Lead | ug/L | 0.50 U | 1.0 | 0.50 | 11/03/18 11:50 | |
| Selenium | ug/L | 0.50 U | 1.0 | 0.50 | 11/03/18 11:50 | |
| Silver | ug/L | 0.050 U | 0.10 | 0.050 | 11/02/18 11:39 | |
| Thallium | ug/L | 0.50 U | 1.0 | 0.50 | 11/03/18 11:50 | |
| Zinc | ug/L | 2.5 U | 5.0 | 2.5 | 11/03/18 11:50 | |

LABORATORY CONTROL SAMPLE: 2652409

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Beryllium | ug/L | 5 | 5.1 | 103 | 80-120 | |
| Cadmium | ug/L | 5 | 4.9 | 98 | 80-120 | |
| Copper | ug/L | 50 | 48.6 | 97 | 80-120 | |
| Lead | ug/L | 50 | 50.5 | 101 | 80-120 | |
| Selenium | ug/L | 50 | 48.5 | 97 | 80-120 | |
| Silver | ug/L | 5 | 5.0 | 101 | 80-120 | |
| Thallium | ug/L | 50 | 50.6 | 101 | 80-120 | |
| Zinc | ug/L | 250 | 241 | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2652410 2652411

| Parameter | Units | 35427207002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium | ug/L | 0.050 U | 5 | 5 | 8.9 | 8.0 | 179 | 160 | 75-125 | 11 | 20 | J(IS), J(M1) |
| Cadmium | ug/L | 0.050 U | 5 | 5 | 4.8 | 4.8 | 95 | 95 | 75-125 | 0 | 20 | |
| Copper | ug/L | 0.93 U | 50 | 50 | 47.1 | 47.0 | 94 | 94 | 75-125 | 0 | 20 | |
| Lead | ug/L | 0.50 U | 50 | 50 | 49.9 | 49.3 | 100 | 99 | 75-125 | 1 | 20 | |
| Selenium | ug/L | 0.78 I | 50 | 50 | 47.6 | 47.1 | 94 | 93 | 75-125 | 1 | 20 | |
| Silver | ug/L | 0.050 U | 5 | 5 | 5.0 | 4.9 | 100 | 99 | 75-125 | 1 | 20 | |
| Thallium | ug/L | 0.50 U | 50 | 50 | 50.4 | 50.1 | 100 | 100 | 75-125 | 1 | 20 | |
| Zinc | ug/L | 2.5 U | 250 | 250 | 235 | 233 | 93 | 93 | 75-125 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 491202 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35427487001, 35427487002

METHOD BLANK: 2656420 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Beryllium | ug/L | 0.050 U | 0.10 | 0.050 | 11/06/18 10:52 | |
| Cadmium | ug/L | 0.050 U | 0.10 | 0.050 | 11/06/18 07:12 | |
| Copper | ug/L | 0.93 U | 1.0 | 0.93 | 11/06/18 07:12 | |
| Lead | ug/L | 0.50 U | 1.0 | 0.50 | 11/06/18 07:12 | |
| Selenium | ug/L | 0.50 U | 1.0 | 0.50 | 11/06/18 10:52 | |
| Silver | ug/L | 0.050 U | 0.10 | 0.050 | 11/06/18 07:12 | |
| Thallium | ug/L | 0.50 U | 1.0 | 0.50 | 11/06/18 07:12 | |

LABORATORY CONTROL SAMPLE: 2656421

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Beryllium | ug/L | 5 | 4.4 | 88 | 80-120 | |
| Cadmium | ug/L | 5 | 4.9 | 98 | 80-120 | |
| Copper | ug/L | 50 | 48.4 | 97 | 80-120 | |
| Lead | ug/L | 50 | 49.6 | 99 | 80-120 | |
| Selenium | ug/L | 50 | 49.0 | 98 | 80-120 | |
| Silver | ug/L | 5 | 4.9 | 98 | 80-120 | |
| Thallium | ug/L | 50 | 48.7 | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2656422 2656423

| Parameter | Units | 35427487002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium | ug/L | 0.050 U | 5 | 5 | 5.0 | 4.6 | 99 | 91 | 75-125 | 9 | 20 | |
| Cadmium | ug/L | 0.050 U | 5 | 5 | 4.9 | 4.9 | 97 | 98 | 75-125 | 1 | 20 | |
| Copper | ug/L | 0.93 U | 50 | 50 | 47.6 | 47.0 | 95 | 94 | 75-125 | 1 | 20 | |
| Lead | ug/L | 0.50 U | 50 | 50 | 48.8 | 48.2 | 97 | 96 | 75-125 | 1 | 20 | |
| Selenium | ug/L | 0.77 I | 50 | 50 | 49.9 | 49.3 | 98 | 97 | 75-125 | 1 | 20 | |
| Silver | ug/L | 0.050 U | 5 | 5 | 4.9 | 4.9 | 97 | 97 | 75-125 | 0 | 20 | |
| Thallium | ug/L | 0.50 U | 50 | 50 | 47.7 | 47.4 | 95 | 95 | 75-125 | 1 | 20 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 492684 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35427487001, 35427487002

METHOD BLANK: 2664853 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Zinc | ug/L | 2.5 U | 5.0 | 2.5 | 11/10/18 15:28 | |

LABORATORY CONTROL SAMPLE: 2664854

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Zinc | ug/L | 250 | 260 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2664855 2664856

| Parameter | Units | 35421419011 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | ug/L | 4.1 I | 250 | 250 | 244 | 249 | 96 | 98 | 75-125 | 2 | 20 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 492338 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004, 35427487005

METHOD BLANK: 2662565 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004, 35427487005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 0.50 | 0.12 | 11/09/18 00:24 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 2.0 | 0.59 | 11/09/18 00:24 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 10.0 | 5.0 | 11/09/18 00:24 | |
| 2-Hexanone | ug/L | 5.0 U | 10.0 | 5.0 | 11/09/18 00:24 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 10.0 | 5.0 | 11/09/18 00:24 | |
| Acetone | ug/L | 10.0 U | 20.0 | 10.0 | 11/09/18 00:24 | |
| Acrylonitrile | ug/L | 5.0 U | 10.0 | 5.0 | 11/09/18 00:24 | |
| Benzene | ug/L | 0.10 U | 1.0 | 0.10 | 11/09/18 00:24 | |
| Bromochloromethane | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| Bromodichloromethane | ug/L | 0.27 U | 0.60 | 0.27 | 11/09/18 00:24 | |
| Bromoform | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| Bromomethane | ug/L | 0.50 U | 5.0 | 0.50 | 11/09/18 00:24 | |
| Carbon disulfide | ug/L | 5.0 U | 10.0 | 5.0 | 11/09/18 00:24 | |
| Carbon tetrachloride | ug/L | 0.50 U | 3.0 | 0.50 | 11/09/18 00:24 | |
| Chlorobenzene | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| Chloroethane | ug/L | 0.50 U | 10.0 | 0.50 | 11/09/18 00:24 | |
| Chloroform | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| Chloromethane | ug/L | 0.62 U | 1.0 | 0.62 | 11/09/18 00:24 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 0.50 | 0.25 | 11/09/18 00:24 | |
| Dibromochloromethane | ug/L | 0.26 U | 2.0 | 0.26 | 11/09/18 00:24 | |
| Dibromomethane | ug/L | 0.50 U | 2.0 | 0.50 | 11/09/18 00:24 | |
| Ethylbenzene | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| Iodomethane | ug/L | 0.50 U | 10.0 | 0.50 | 11/09/18 00:24 | |
| Methylene Chloride | ug/L | 2.5 U | 5.0 | 2.5 | 11/09/18 00:24 | |
| Styrene | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| Tetrachloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| Toluene | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 0.50 | 0.25 | 11/09/18 00:24 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 10.0 | 5.0 | 11/09/18 00:24 | |
| Trichloroethene | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

METHOD BLANK: 2662565 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004, 35427487005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| Vinyl acetate | ug/L | 1.0 U | 10.0 | 1.0 | 11/09/18 00:24 | |
| Vinyl chloride | ug/L | 0.50 U | 1.0 | 0.50 | 11/09/18 00:24 | |
| Xylene (Total) | ug/L | 1.0 U | 3.0 | 1.0 | 11/09/18 00:24 | |
| 1,2-Dichloroethane-d4 (S) | % | 100 | 70-130 | | 11/09/18 00:24 | |
| 4-Bromofluorobenzene (S) | % | 107 | 70-130 | | 11/09/18 00:24 | |
| Toluene-d8 (S) | % | 101 | 70-130 | | 11/09/18 00:24 | |

LABORATORY CONTROL SAMPLE: 2662566

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 20 | 19.0 | 95 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 20 | 19.2 | 96 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 20 | 16.0 | 80 | 68-125 | |
| 1,1,2-Trichloroethane | ug/L | 20 | 17.8 | 89 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 20 | 19.0 | 95 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 20 | 19.9 | 99 | 66-133 | |
| 1,2,3-Trichloropropane | ug/L | 20 | 17.0 | 85 | 62-127 | |
| 1,2-Dichlorobenzene | ug/L | 20 | 17.9 | 89 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 20 | 16.8 | 84 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 20 | 18.2 | 91 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 20 | 18.0 | 90 | 70-130 | |
| 2-Butanone (MEK) | ug/L | 40 | 33.6 | 84 | 47-143 | |
| 2-Hexanone | ug/L | 40 | 29.7 | 74 | 48-145 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 40 | 30.1 | 75 | 57-132 | |
| Acetone | ug/L | 40 | 30.9 | 77 | 46-148 | |
| Acrylonitrile | ug/L | 200 | 180 | 90 | 60-143 | |
| Benzene | ug/L | 20 | 18.8 | 94 | 70-130 | |
| Bromochloromethane | ug/L | 20 | 18.4 | 92 | 70-130 | |
| Bromodichloromethane | ug/L | 20 | 17.7 | 89 | 70-130 | |
| Bromoform | ug/L | 20 | 16.4 | 82 | 49-126 | |
| Bromomethane | ug/L | 20 | 29.5 | 147 | 10-165 | |
| Carbon disulfide | ug/L | 20 | 18.9 | 95 | 60-141 | |
| Carbon tetrachloride | ug/L | 20 | 19.6 | 98 | 63-126 | |
| Chlorobenzene | ug/L | 20 | 18.6 | 93 | 70-130 | |
| Chloroethane | ug/L | 20 | 20.3 | 101 | 71-142 | |
| Chloroform | ug/L | 20 | 18.8 | 94 | 70-130 | |
| Chloromethane | ug/L | 20 | 20.4 | 102 | 40-140 | |
| cis-1,2-Dichloroethene | ug/L | 20 | 18.2 | 91 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 20 | 18.5 | 92 | 70-130 | |
| Dibromochloromethane | ug/L | 20 | 18.3 | 92 | 62-118 | |
| Dibromomethane | ug/L | 20 | 18.4 | 92 | 70-130 | |
| Ethylbenzene | ug/L | 20 | 18.8 | 94 | 70-130 | |
| Iodomethane | ug/L | 40 | 37.5 | 94 | 10-164 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

LABORATORY CONTROL SAMPLE: 2662566

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Methylene Chloride | ug/L | 20 | 18.6 | 93 | 65-136 | |
| Styrene | ug/L | 20 | 18.8 | 94 | 70-130 | |
| Tetrachloroethene | ug/L | 20 | 18.6 | 93 | 64-134 | |
| Toluene | ug/L | 20 | 19.3 | 96 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 20 | 18.7 | 94 | 68-127 | |
| trans-1,3-Dichloropropene | ug/L | 20 | 18.2 | 91 | 65-121 | |
| trans-1,4-Dichloro-2-butene | ug/L | 20 | 15.7 | 78 | 42-129 | |
| Trichloroethene | ug/L | 20 | 18.8 | 94 | 70-130 | |
| Trichlorofluoromethane | ug/L | 20 | 20.7 | 104 | 65-135 | |
| Vinyl acetate | ug/L | 20 | 19.0 | 95 | 60-144 | |
| Vinyl chloride | ug/L | 20 | 21.8 | 109 | 68-131 | |
| Xylene (Total) | ug/L | 60 | 57.1 | 95 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 99 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 105 | 70-130 | |
| Toluene-d8 (S) | % | | | 99 | 70-130 | |

MATRIX SPIKE SAMPLE: 2663970

| Parameter | Units | 35427331002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 20 | 17.8 | 89 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 20 | 19.1 | 96 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 20 | 16.5 | 82 | 68-125 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 20 | 17.6 | 88 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 20 | 18.5 | 91 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 20 | 20.1 | 101 | 66-133 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 20 | 14.5 | 73 | 62-127 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 20 | 17.0 | 85 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 20 | 15.9 | 79 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 20 | 17.0 | 85 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 20 | 17.0 | 84 | 70-130 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 40 | 36.9 | 92 | 47-143 | |
| 2-Hexanone | ug/L | 5.0 U | 40 | 38.4 | 96 | 48-145 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 40 | 36.0 | 90 | 57-132 | |
| Acetone | ug/L | 10.0 U | 40 | 36.8 | 92 | 46-148 | |
| Acrylonitrile | ug/L | 5.0 U | 200 | 189 | 94 | 60-143 | |
| Benzene | ug/L | 0.58 I | 20 | 18.8 | 91 | 70-130 | |
| Bromochloromethane | ug/L | 0.50 U | 20 | 17.4 | 87 | 70-130 | |
| Bromodichloromethane | ug/L | 0.27 U | 20 | 16.0 | 80 | 70-130 | |
| Bromoform | ug/L | 0.50 U | 20 | 14.7 | 74 | 49-126 | |
| Bromomethane | ug/L | 0.50 U | 20 | 14.6 | 73 | 10-165 | |
| Carbon disulfide | ug/L | 5.0 U | 20 | 20.0 | 100 | 60-141 | |
| Carbon tetrachloride | ug/L | 0.50 U | 20 | 18.7 | 93 | 63-126 | |
| Chlorobenzene | ug/L | 1.2 | 20 | 19.0 | 89 | 70-130 | |
| Chloroethane | ug/L | 0.50 U | 20 | 20.0 | 100 | 71-142 | |
| Chloroform | ug/L | 0.50 U | 20 | 17.9 | 89 | 70-130 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

MATRIX SPIKE SAMPLE: 2663970

| Parameter | Units | 35427331002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chloromethane | ug/L | 0.62 U | 20 | 20.0 | 100 | 40-140 | |
| cis-1,2-Dichloroethene | ug/L | 1.8 | 20 | 19.0 | 86 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 20 | 16.2 | 81 | 70-130 | |
| Dibromochloromethane | ug/L | 0.26 U | 20 | 16.8 | 84 | 62-118 | |
| Dibromomethane | ug/L | 0.50 U | 20 | 17.6 | 88 | 70-130 | |
| Ethylbenzene | ug/L | 0.50 U | 20 | 19.9 | 99 | 70-130 | |
| Iodomethane | ug/L | 0.50 U | 40 | 9.4 I | 23 | 10-164 | |
| Methylene Chloride | ug/L | 2.5 U | 20 | 15.7 | 79 | 65-136 | |
| Styrene | ug/L | 0.50 U | 20 | 17.6 | 88 | 70-130 | |
| Tetrachloroethene | ug/L | 0.50 U | 20 | 18.2 | 91 | 64-134 | |
| Toluene | ug/L | 0.50 U | 20 | 18.8 | 94 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 20 | 18.1 | 91 | 68-127 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 20 | 16.3 | 82 | 65-121 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 20 | 11.7 | 59 | 42-129 | |
| Trichloroethene | ug/L | 0.50 U | 20 | 18.4 | 92 | 70-130 | |
| Trichlorofluoromethane | ug/L | 0.50 U | 20 | 22.3 | 112 | 65-135 | |
| Vinyl acetate | ug/L | 1.0 U | 20 | 16.8 | 84 | 60-144 | |
| Vinyl chloride | ug/L | 0.50 U | 20 | 22.0 | 110 | 68-131 | |
| Xylene (Total) | ug/L | 1.0 U | 60 | 57.4 | 96 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 99 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 105 | 70-130 | |
| Toluene-d8 (S) | % | | | | 98 | 70-130 | |

SAMPLE DUPLICATE: 2663969

| Parameter | Units | 35427331001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1,1-Trichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 0.12 U | 0.12 U | | 40 | |
| 1,1,2-Trichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1-Dichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,1-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2,3-Trichloropropane | ug/L | 0.59 U | 0.59 U | | 40 | |
| 1,2-Dichlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2-Dichloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,2-Dichloropropane | ug/L | 0.50 U | 0.50 U | | 40 | |
| 1,4-Dichlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| 2-Butanone (MEK) | ug/L | 5.0 U | 5.0 U | | 40 | |
| 2-Hexanone | ug/L | 5.0 U | 5.0 U | | 40 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 5.0 U | 5.0 U | | 40 | |
| Acetone | ug/L | 10.0 U | 10.0 U | | 40 | |
| Acrylonitrile | ug/L | 5.0 U | 5.0 U | | 40 | |
| Benzene | ug/L | 0.10 U | 0.10 U | | 40 | |
| Bromochloromethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Bromodichloromethane | ug/L | 0.27 U | 0.27 U | | 40 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

SAMPLE DUPLICATE: 2663969

| Parameter | Units | 35427331001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Bromoform | ug/L | 0.50 U | 0.50 U | | 40 | |
| Bromomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Carbon disulfide | ug/L | 5.0 U | 5.0 U | | 40 | |
| Carbon tetrachloride | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chlorobenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloroethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloroform | ug/L | 0.50 U | 0.50 U | | 40 | |
| Chloromethane | ug/L | 0.62 U | 0.62 U | | 40 | |
| cis-1,2-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| cis-1,3-Dichloropropene | ug/L | 0.25 U | 0.25 U | | 40 | |
| Dibromochloromethane | ug/L | 0.26 U | 0.26 U | | 40 | |
| Dibromomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Ethylbenzene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Iodomethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Methylene Chloride | ug/L | 2.5 U | 2.5 U | | 40 | |
| Styrene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Tetrachloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Toluene | ug/L | 0.50 U | 0.50 U | | 40 | |
| trans-1,2-Dichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| trans-1,3-Dichloropropene | ug/L | 0.25 U | 0.25 U | | 40 | |
| trans-1,4-Dichloro-2-butene | ug/L | 5.0 U | 5.0 U | | 40 | |
| Trichloroethene | ug/L | 0.50 U | 0.50 U | | 40 | |
| Trichlorofluoromethane | ug/L | 0.50 U | 0.50 U | | 40 | |
| Vinyl acetate | ug/L | 1.0 U | 1.0 U | | 40 | |
| Vinyl chloride | ug/L | 0.50 U | 0.50 U | | 40 | |
| Xylene (Total) | ug/L | 1.0 U | 1.0 U | | 40 | |
| 1,2-Dichloroethane-d4 (S) | % | 99 | 100 | 0 | 40 | |
| 4-Bromofluorobenzene (S) | % | 105 | 106 | 1 | 40 | |
| Toluene-d8 (S) | % | 103 | 99 | 4 | 40 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490951 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004, 35427487006

METHOD BLANK: 2655279 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004, 35427487006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | 0.0064 U | 0.020 | 0.0064 | 11/06/18 04:59 | |
| 1,2-Dibromoethane (EDB) | ug/L | 0.0075 U | 0.010 | 0.0075 | 11/06/18 04:59 | |

LABORATORY CONTROL SAMPLE: 2655280

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | .25 | 0.19 | 78 | 60-140 | |
| 1,2-Dibromoethane (EDB) | ug/L | .25 | 0.20 | 79 | 60-140 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2655281 2655282

| Parameter | Units | 35428033001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromo-3-chloropropane | ug/L | 0.0062 U | .44 | .44 | 0.36 | 0.38 | 83 | 86 | 60-140 | 3 | 40 | |
| 1,2-Dibromoethane (EDB) | ug/L | 0.0073 U | .44 | .44 | 0.39 | 0.40 | 89 | 90 | 60-140 | 2 | 40 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490532 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35427487001, 35427487002

METHOD BLANK: 2652975 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 5.0 U | 5.0 | 5.0 | 11/02/18 14:52 | |

LABORATORY CONTROL SAMPLE: 2652976

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 300 | 293 | 98 | 90-110 | |

SAMPLE DUPLICATE: 2652977

| Parameter | Units | 35426872001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 345 | 349 | 1 | 5 | |

SAMPLE DUPLICATE: 2652978

| Parameter | Units | 35427352001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 358 | 362 | 1 | 5 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490955 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35427487003, 35427487004

METHOD BLANK: 2655294 Matrix: Water
Associated Lab Samples: 35427487003, 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 5.0 U | 5.0 | 5.0 | 11/05/18 13:58 | |

LABORATORY CONTROL SAMPLE: 2655295

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 300 | 288 | 96 | 90-110 | |

SAMPLE DUPLICATE: 2655296

| Parameter | Units | 35427487003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 181 | 178 | 2 | 5 | |

SAMPLE DUPLICATE: 2655297

| Parameter | Units | 35427576003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | mg/L | 33000 | 33900 | 3 | 5 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 491303 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Susp. Solids Tampa
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2656831 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | 5.0 U | 5.0 | 5.0 | 11/06/18 10:30 | |

LABORATORY CONTROL SAMPLE: 2656832

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | 100 | 96.0 | 96 | 90-110 | |

SAMPLE DUPLICATE: 2656833

| Parameter | Units | 35427471003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | 100 | 84.0 | 17 | 5 | J(D6) |

SAMPLE DUPLICATE: 2656872

| Parameter | Units | 35427580002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | ND | 5.0 U | | 5 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 491111 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury,Low Level
Associated Lab Samples: 35427487004

METHOD BLANK: 2655878 Matrix: Water
Associated Lab Samples: 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ng/L | 0.25 U | 0.50 | 0.25 | 11/06/18 11:23 | |

METHOD BLANK: 2655879 Matrix: Water
Associated Lab Samples: 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ng/L | 0.25 U | 0.50 | 0.25 | 11/06/18 11:28 | |

METHOD BLANK: 2655880 Matrix: Water
Associated Lab Samples: 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ng/L | 0.25 U | 0.50 | 0.25 | 11/06/18 11:33 | |

LABORATORY CONTROL SAMPLE: 2655881

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ng/L | 5 | 5.62 | 112 | 77-123 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2655890 2655891

| Parameter | Units | 35427877001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ng/L | 14.1 | 20 | 20 | 35.0 | 33.3 | 105 | 96 | 71-125 | 5 | 24 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 491112 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury,Low Level
Associated Lab Samples: 35427487001, 35427487002, 35427487003

METHOD BLANK: 2655883 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ng/L | 0.25 U | 0.50 | 0.25 | 11/06/18 12:53 | |

METHOD BLANK: 2655884 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ng/L | 0.25 U | 0.50 | 0.25 | 11/06/18 12:58 | |

METHOD BLANK: 2655885 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ng/L | 0.25 U | 0.50 | 0.25 | 11/06/18 13:03 | |

LABORATORY CONTROL SAMPLE: 2655886

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ng/L | 5 | 5.62 | 112 | 77-123 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2655893 2655894

| Parameter | Units | 35427309002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ng/L | 0.739 | 1 | 1 | 1.80 | 1.51 | 106 | 77 | 71-125 | 18 | 24 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2655895 2655896

| Parameter | Units | 35427487001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ng/L | 0.458 I | 1 | 1 | 1.45 | 1.27 | 99 | 81 | 71-125 | 13 | 24 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490165 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2650746 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| BOD, 5 day | mg/L | 2.0 U | 2.0 | 2.0 | 11/06/18 17:13 | |

LABORATORY CONTROL SAMPLE: 2650748

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| BOD, 5 day | mg/L | 199 | 186 | 94 | 85-115 | |

SAMPLE DUPLICATE: 2650749

| Parameter | Units | 35427392001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| BOD, 5 day | mg/L | 2.0 U | 2.0 U | | 20 | |

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## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490145 Analysis Method: SM10200
QC Batch Method: SM10200 Analysis Description: Chlorophyll & Pheophytin
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2650671 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chlorophyll a | ug/L | 2.2 U | 5.0 | 2.2 | 11/06/18 16:06 | |

LABORATORY CONTROL SAMPLE: 2650672

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chlorophyll a | ug/L | 10 | 10.9 | 109 | 85-115 | |

SAMPLE DUPLICATE: 2650673

| Parameter | Units | 35427342001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Chlorophyll a | ug/L | 35.6 mg/m3 | 37.2 | 4 | 40 | |

SAMPLE DUPLICATE: 2650674

| Parameter | Units | 35427487003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Chlorophyll a | ug/L | 2.5 I | 2.2 U | | 40 | |

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## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490748 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2654462 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 0.035 U | 0.050 | 0.035 | 11/03/18 10:36 | |

LABORATORY CONTROL SAMPLE: 2654463

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 1 | 1.1 | 105 | 90-110 | |

MATRIX SPIKE SAMPLE: 2654465

| Parameter | Units | 35428067007 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 44.5 | 10.2 | 54.2 | 96 | 90-110 | |

SAMPLE DUPLICATE: 2654464

| Parameter | Units | 35428067007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 44.5 | 44.5 | 0 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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(386)672-5668

## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 492856 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2665521 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 0.086 U | 0.50 | 0.086 | 11/13/18 09:47 | |

LABORATORY CONTROL SAMPLE: 2665522

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 20 | 18.4 | 92 | 90-110 | |

MATRIX SPIKE SAMPLE: 2665524

| Parameter | Units | 35427413001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 0.086 U | 20 | 18.4 | 92 | 90-110 | |

MATRIX SPIKE SAMPLE: 2665526

| Parameter | Units | 35427487002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 0.82 | 20 | 20.0 | 96 | 90-110 | |

SAMPLE DUPLICATE: 2665523

| Parameter | Units | 35427413001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 0.086 U | 0.11 I | | 20 | |

SAMPLE DUPLICATE: 2665525

| Parameter | Units | 35427487002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Kjeldahl, Total | mg/L | 0.82 | 0.98 | 18 | 20 | |

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(386)672-5668

## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 490113 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2650570 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.025 U | 0.050 | 0.025 | 11/01/18 07:29 | |
| Nitrogen, NO2 plus NO3 | mg/L | 0.033 U | 0.050 | 0.033 | 11/01/18 07:29 | |

LABORATORY CONTROL SAMPLE: 2650571

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | 2 | 2.1 | 105 | 90-110 | |

MATRIX SPIKE SAMPLE: 2650573

| Parameter | Units | 35427434003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | 2.2 | 2 | 4.1 | 92 | 90-110 | |

MATRIX SPIKE SAMPLE: 2650575

| Parameter | Units | 35427487004 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, NO2 plus NO3 | mg/L | 0.033 U | 2 | 2.1 | 103 | 90-110 | |

SAMPLE DUPLICATE: 2650572

| Parameter | Units | 35427434003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.76 | 0.73 | 5 | 20 | |
| Nitrogen, NO2 plus NO3 | mg/L | 2.2 | 2.2 | 2 | 20 | |

SAMPLE DUPLICATE: 2650574

| Parameter | Units | 35427487004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | mg/L | 0.025 U | 0.025 U | | 20 | |
| Nitrogen, NO2 plus NO3 | mg/L | 0.033 U | 0.033 U | | 20 | |

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(386)672-5668

## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 492858 Analysis Method: EPA 365.4
QC Batch Method: EPA 365.4 Analysis Description: 365.4 Phosphorus
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2665530 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus, Total (as P) | mg/L | 0.050 U | 0.10 | 0.050 | 11/13/18 10:18 | |

LABORATORY CONTROL SAMPLE: 2665531

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus, Total (as P) | mg/L | 4 | 3.6 | 90 | 90-110 | |

MATRIX SPIKE SAMPLE: 2665533

| Parameter | Units | 35427413001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus, Total (as P) | mg/L | 1.6 | 4 | 5.5 | 98 | 80-120 | |

MATRIX SPIKE SAMPLE: 2665535

| Parameter | Units | 35427487002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Phosphorus, Total (as P) | mg/L | 0.050 U | 4 | 3.9 | 96 | 80-120 | |

SAMPLE DUPLICATE: 2665532

| Parameter | Units | 35427413001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus, Total (as P) | mg/L | 1.6 | 1.6 | 2 | 20 | |

SAMPLE DUPLICATE: 2665534

| Parameter | Units | 35427487002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Phosphorus, Total (as P) | mg/L | 0.050 U | 0.050 U | | 20 | |

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Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA

Project: Surface Central County Solid W
Pace Project No.: 35427487

QC Batch: 491710 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

METHOD BLANK: 2658906 Matrix: Water
Associated Lab Samples: 35427487001, 35427487002, 35427487003, 35427487004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 0.50 U | 1.0 | 0.50 | 11/07/18 22:52 | |

LABORATORY CONTROL SAMPLE: 2658907

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 20 | 19.2 | 96 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2658908 2658909

| Parameter | Units | 35428666003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 11.8 | 20 | 20 | 30.9 | 29.8 | 95 | 90 | 80-120 | 3 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2658910 2658911

| Parameter | Units | 92405448001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 2.9 | 20 | 20 | 21.9 | 22.1 | 95 | 96 | 80-120 | 1 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

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8 East Tower Circle
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(386)672-5668

# QUALIFIERS

Project: Surface Central County Solid W
Pace Project No.: 35427487

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-O | Pace Analytical Services - Ormond Beach |
| PASI-Tp | Pace Analytical Services - Tampa |

## ANALYTE QUALIFIERS

| | |
|---|---|
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| U | Compound was analyzed for but not detected. |
| J(D6) | Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits. |
| J(IS) | Estimated Value. The internal standard recovery associated with this result exceeds the lower control limit. The reported result should be considered an estimated value. |
| J(M1) | Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |



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Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Surface Central County Solid W
Pace Project No.: 35427487

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **35427487001** | **(28824) Pond -1** | | | | |
| **35427487002** | **(28825) Pond -2** | | | | |
| **35427487003** | **Duplicate** | | | | |
| **35427487001** | **(28824) Pond -1** | EPA 8011 | 490951 | EPA 8011 | 491089 |
| **35427487002** | **(28825) Pond -2** | EPA 8011 | 490951 | EPA 8011 | 491089 |
| **35427487003** | **Duplicate** | EPA 8011 | 490951 | EPA 8011 | 491089 |
| **35427487004** | **Field Blank** | EPA 8011 | 490951 | EPA 8011 | 491089 |
| **35427487006** | **8011 Trip Blank** | EPA 8011 | 490951 | EPA 8011 | 491089 |
| **35427487001** | **(28824) Pond -1** | EPA 3010 | 491203 | EPA 6010 | 491222 |
| **35427487002** | **(28825) Pond -2** | EPA 3010 | 491203 | EPA 6010 | 491222 |
| **35427487003** | **Duplicate** | EPA 3010 | 490396 | EPA 6010 | 490414 |
| **35427487004** | **Field Blank** | EPA 3010 | 490396 | EPA 6010 | 490414 |
| **35427487001** | **(28824) Pond -1** | EPA 3010 | 491202 | EPA 6020 | 491221 |
| **35427487001** | **(28824) Pond -1** | EPA 3010 | 492684 | EPA 6020 | 492703 |
| **35427487002** | **(28825) Pond -2** | EPA 3010 | 491202 | EPA 6020 | 491221 |
| **35427487002** | **(28825) Pond -2** | EPA 3010 | 492684 | EPA 6020 | 492703 |
| **35427487003** | **Duplicate** | EPA 3010 | 490395 | EPA 6020 | 490415 |
| **35427487004** | **Field Blank** | EPA 3010 | 490395 | EPA 6020 | 490415 |
| **35427487001** | **(28824) Pond -1** | EPA 8260 | 492338 | | |
| **35427487002** | **(28825) Pond -2** | EPA 8260 | 492338 | | |
| **35427487003** | **Duplicate** | EPA 8260 | 492338 | | |
| **35427487004** | **Field Blank** | EPA 8260 | 492338 | | |
| **35427487005** | **8260 Trip Blank** | EPA 8260 | 492338 | | |
| **35427487001** | **(28824) Pond -1** | SM 2540C | 490532 | | |
| **35427487002** | **(28825) Pond -2** | SM 2540C | 490532 | | |
| **35427487003** | **Duplicate** | SM 2540C | 490955 | | |
| **35427487004** | **Field Blank** | SM 2540C | 490955 | | |
| **35427487001** | **(28824) Pond -1** | SM 2540D | 491303 | | |
| **35427487002** | **(28825) Pond -2** | SM 2540D | 491303 | | |
| **35427487003** | **Duplicate** | SM 2540D | 491303 | | |
| **35427487004** | **Field Blank** | SM 2540D | 491303 | | |
| **35427487001** | **(28824) Pond -1** | EPA 1631E | 491112 | EPA 1631E | 491498 |
| **35427487002** | **(28825) Pond -2** | EPA 1631E | 491112 | EPA 1631E | 491498 |
| **35427487003** | **Duplicate** | EPA 1631E | 491112 | EPA 1631E | 491498 |
| **35427487004** | **Field Blank** | EPA 1631E | 491111 | EPA 1631E | 491497 |
| **35427487001** | **(28824) Pond -1** | SM 5210B | 490165 | SM 5210B | 491522 |
| **35427487002** | **(28825) Pond -2** | SM 5210B | 490165 | SM 5210B | 491522 |
| **35427487003** | **Duplicate** | SM 5210B | 490165 | SM 5210B | 491522 |
| **35427487004** | **Field Blank** | SM 5210B | 490165 | SM 5210B | 491522 |
| **35427487001** | **(28824) Pond -1** | SM10200 | 490145 | SM10200 | 491379 |
| **35427487002** | **(28825) Pond -2** | SM10200 | 490145 | SM10200 | 491379 |

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(386)672-5668

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Surface Central County Solid W
Pace Project No.: 35427487

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **35427487003** | **Duplicate** | SM10200 | 490145 | SM10200 | 491379 |
| **35427487004** | **Field Blank** | SM10200 | 490145 | SM10200 | 491379 |
| **35427487001** | **(28824) Pond -1** | TKN+NOx Calculation | 493388 | | |
| **35427487002** | **(28825) Pond -2** | TKN+NOx Calculation | 493388 | | |
| **35427487003** | **Duplicate** | TKN+NOx Calculation | 493388 | | |
| **35427487004** | **Field Blank** | TKN+NOx Calculation | 493388 | | |
| **35427487001** | **(28824) Pond -1** | EPA 350.1 | 490748 | | |
| **35427487002** | **(28825) Pond -2** | EPA 350.1 | 490748 | | |
| **35427487003** | **Duplicate** | EPA 350.1 | 490748 | | |
| **35427487004** | **Field Blank** | EPA 350.1 | 490748 | | |
| **35427487001** | **(28824) Pond -1** | EPA 351.2 | 492856 | EPA 351.2 | 493133 |
| **35427487002** | **(28825) Pond -2** | EPA 351.2 | 492856 | EPA 351.2 | 493133 |
| **35427487003** | **Duplicate** | EPA 351.2 | 492856 | EPA 351.2 | 493133 |
| **35427487004** | **Field Blank** | EPA 351.2 | 492856 | EPA 351.2 | 493133 |
| **35427487001** | **(28824) Pond -1** | EPA 353.2 | 490113 | | |
| **35427487002** | **(28825) Pond -2** | EPA 353.2 | 490113 | | |
| **35427487003** | **Duplicate** | EPA 353.2 | 490113 | | |
| **35427487004** | **Field Blank** | EPA 353.2 | 490113 | | |
| **35427487001** | **(28824) Pond -1** | EPA 365.4 | 492858 | EPA 365.4 | 493135 |
| **35427487002** | **(28825) Pond -2** | EPA 365.4 | 492858 | EPA 365.4 | 493135 |
| **35427487003** | **Duplicate** | EPA 365.4 | 492858 | EPA 365.4 | 493135 |
| **35427487004** | **Field Blank** | EPA 365.4 | 492858 | EPA 365.4 | 493135 |
| **35427487001** | **(28824) Pond -1** | SM 5310B | 491710 | | |
| **35427487002** | **(28825) Pond -2** | SM 5310B | 491710 | | |
| **35427487003** | **Duplicate** | SM 5310B | 491710 | | |
| **35427487004** | **Field Blank** | SM 5310B | 491710 | | |
| **35427487001** | **(28824) Pond -1** | FLDEP SOP 10/03/83 | 493107 | | |
| **35427487002** | **(28825) Pond -2** | FLDEP SOP 10/03/83 | 493107 | | |
| **35427487003** | **Duplicate** | FLDEP SOP 10/03/83 | 493107 | | |
| **35427487004** | **Field Blank** | FLDEP SOP 10/03/83 | 493107 | | |



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# CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must

**WO# : 35427487**

35427487

**Section A**
**Required Client Information:**

| | |
|---|---|
| Company: | Sarasota County |
| Address: | 1255 T. Mabry Carlton Parkway |
| | Venice, FL 34292 |
| Email: | |
| Phone: | Fax: |
| Requested Due Date: | |

**Section B**
**Required Project Information:**

| | |
|---|---|
| Report To: | Mr. Cesar Rodriguez |
| Copy To: | |
| Purchase Order #: | 181191 |
| Project Name: | Surface Central County Solid Waste |
| Project #: | |

**Section C**
**Invoice Information:**

| | |
|---|---|
| Attention: | |
| Company Name: | |
| Address: | |
| Pace Quote: | |
| Pace Project Manager: | martha.montero@pacelabs.com, |
| Pace Profile #: | 765 L5 |

**Regulatory Agency**

**State / Location**
FL

**Requested Analysis Filtered (Y/N)**

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Y/N | Analyses Test: 8260 App 1 | EDB 8011 | TOC (total organic carbon) | NH3, T-Nitrogen, T-Phos | H2SO4 | Metals 6010/6020,Tot Hard | HNO3 | BOD 5-day | TDS/TSS nitrate | Chlorophyll A | LL Hg | LL Hg Blank Water | Residual Chlorine (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | HCL | Unpreserved | HCL | Unpreserved | Unpreserved | Unpreserved | Unpreserved | Unpreserved | | | | | | | | | | | | | |
| 1 | ~~Southwest Pond SW_1~~ (28824) Pond-1 | WT | | 10/31/18 | 1015 | | | 13 | | | | | | | | | | | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 2 | ~~Northeast Pond SW-2~~ (28825) Pond-2 | WT | | 10/31/18 | 0910 | | | 13 | | | | | | | | | | | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 3 | Duplicate | WT | | 10/31/18 | 1015 | | | 13 | | | | | | | | | | | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 4 | Field blank | WT | | 10/31/18 | 0900 | | | 13 | | | | | | | | | | | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 5 | Hg Blank water | WT | | 10/31/18 | 0900 | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | | |
| 6 | 8260 Trip Blank | WT | | 10/31/18 | | | | 2 | | | | | | | | | | | 2 | | | | | | | | | | | |
| 7 | 8011 Trip Blank | WT | | 10/31/18 | | | | 2 | | | | | | | | | | | | 2 | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Please use Adapt, Please include all compounds of Appendix one

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| surface water kits: Southwest Pond SW_1; Northeast Pond SW-2; Field blank | Ronald Moore / Sarasota County | 10/31/18 | 1115 | | 10/31/18 | 1245 | T23 | | | |
| | | 10/31/18 | 1442 | | 10/31/18 | 1440 | 6.8 | X | N | X |
| | | | | | | | | | | |
| | | | | | | | | | | |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Ronald Moore ~~Alison Eggleston~~

SIGNATURE of SAMPLER:

DATE Signed: 10/31/18

| TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|

| Pace Analytical Florida Laboratory | Document Name: Sample Condition Upon Receipt Form | Document Revised: May 30, 2018 |
|---|---|---|
| | Document No.: F-FL-C-007 rev. 13 | Issuing Authority: Pace Florida Quality Office |

## Sample Condition Upon Receipt Form (SCUR)

**Project #** WO#: 35427487

**Project Manager:** PM: MIM **Due Date:** 11/14/18

**Client:** CLIENT: SARCOU

**Date and Initials of person:**
Examining contents: DS
Label:
Deliver: 10/31/18 DS
pH:

Thermometer Used: T-203 Date: 10/31/18 Time: 1440 Initials: MM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

| | | | | |
|---|---|---|---|---|
| Cooler #1 Temp.°C | 0.8 (Visual) | 0.0 (Correction Factor) | 0.8 (Actual) | ☒ Samples on ice, cooling process has begun |
| Cooler #2 Temp.°C | 24.3 (Visual) | 0.0 (Correction Factor) | 24.3 (Actual) LL HS | ☐ Samples on ice, cooling process has begun |
| Cooler #3 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| Cooler #4 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| Cooler #5 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| Cooler #6 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

**Shipping Method:** ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

**Billing:** ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

**Tracking #**

**Custody Seal on Cooler/Box Present:** ☐ Yes ☒ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry (None) LL HS

**Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

**Samples shorted to lab (If Yes, complete)** Shorted Date: Shorted Time: Qty:

**Comments:**

| | | |
|---|---|---|
| Chain of Custody Present | ☑ Yes ☐ No ☐ N/A | |
| Chain of Custody Filled Out | ☑ Yes ☐ No ☐ N/A | |
| Relinquished Signature & Sampler Name COC | ☑ Yes ☐ No ☐ N/A | |
| Samples Arrived within Hold Time | ☑ Yes ☐ No ☐ N/A | |
| Rush TAT requested on COC | ☐ Yes ☑ No ☐ N/A | |
| Sufficient Volume | ☑ Yes ☐ No ☐ N/A | |
| Correct Containers Used | ☑ Yes ☐ No ☐ N/A | |
| Containers Intact | ☑ Yes ☐ No ☐ N/A | |
| Sample Labels match COC (sample IDs & date/time of collection) | ☑ Yes ☐ No ☐ N/A | |
| All containers needing acid/base preservation have been checked. | ☑ Yes ☐ No ☒ N/A | Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials: |
| All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates | ☑ Yes ☐ No ☒ N/A | |
| Headspace in VOA Vials? ( >6mm): | ☑ Yes ☐ No ☐ N/A | 8260 Trip Blanks 1/2 half head space |
| Trip Blank Present: | ☐ Yes ☐ No ☒ N/A | |

**Client Notification/ Resolution:**
Person Contacted: Date/Time:

**Comments/ Resolution (use back for additional comments):** did Not Recieve Sample #5

Project Manager Review: Date:

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY ASSURED 1/3/19

December 26, 2018

Mr. Cesar Rodriguez
Sarasota County
1255 T. Mabry Carlton Parkway
Venice, FL 34292

RE: Project: Surface Water Central cty
Pace Project No.: 35438297

Dear Mr. Rodriguez:
Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Martha Montero
martha.montero@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County

Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

## CERTIFICATIONS

Project: Surface Water Central cty
Pace Project No.: 35438297

**Ormond Beach Certification IDs**
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

## REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
(386)672-5668

## SAMPLE SUMMARY

Project: Surface Water Central cty
Pace Project No.: 35438297

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| 35438297001 | Pond 1 RE (at STW-1) 28824 | Water | 12/17/18 12:50 | 12/20/18 14:00 |
| 35438297002 | Pond 2 RE (at STW-2) 28825 | Water | 12/17/18 13:25 | 12/20/18 14:00 |
| 35438297003 | Field Blank 121718 | Water | 12/17/18 13:00 | 12/20/18 14:00 |



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(386)672-5668

## SAMPLE ANALYTE COUNT

Project: Surface Water Central cty
Pace Project No.: 35438297

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| 35438297001 | Pond 1 RE (at STW-1) 28824 | EPA 410.4 | FGF | 1 | PASI-O |
| 35438297002 | Pond 2 RE (at STW-2) 28825 | EPA 410.4 | FGF | 1 | PASI-O |
| 35438297003 | Field Blank 121718 | EPA 410.4 | FGF | 1 | PASI-O |



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## ANALYTICAL RESULTS

Project: Surface Water Central cty
Pace Project No.: 35438297

**Sample: Pond 1 RE (at STW-1) 28824** **Lab ID: 35438297001** Collected: 12/17/18 12:50 Received: 12/20/18 14:00 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **410.4 COD** | Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 | | | | | | | | |
| Chemical Oxygen Demand | **60.3** | mg/L | 20.0 | 12.5 | 1 | 12/24/18 09:32 | 12/24/18 15:56 | | |

## REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
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## ANALYTICAL RESULTS

Project: Surface Water Central cty
Pace Project No.: 35438297

**Sample: Pond 2 RE (at STW-2) 28825** **Lab ID: 35438297002** Collected: 12/17/18 13:25 Received: 12/20/18 14:00 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **410.4 COD** | Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 | | | | | | | | |
| Chemical Oxygen Demand | **65.0** | mg/L | 20.0 | 12.5 | 1 | 12/24/18 09:32 | 12/24/18 15:56 | | |

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## ANALYTICAL RESULTS

Project: Surface Water Central cty
Pace Project No.: 35438297

**Sample: Field Blank 121718** **Lab ID: 35438297003** Collected: 12/17/18 13:00 Received: 12/20/18 14:00 Matrix: Water

| Parameters | Results | Units | PQL | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **410.4 COD** | Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 | | | | | | | | |
| Chemical Oxygen Demand | **12.5 U** | mg/L | 20.0 | 12.5 | 1 | 12/24/18 09:32 | 12/24/18 15:56 | | |

## REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
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## QUALITY CONTROL DATA

Project: Surface Water Central cty
Pace Project No.: 35438297

QC Batch: 503616 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 35438297001, 35438297002, 35438297003

METHOD BLANK: 2721969 Matrix: Water
Associated Lab Samples: 35438297001, 35438297002, 35438297003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/L | 12.5 U | 20.0 | 12.5 | 12/24/18 15:56 | |

LABORATORY CONTROL SAMPLE: 2721970

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/L | 494 | 498 | 101 | 90-110 | |

MATRIX SPIKE SAMPLE: 2721972

| Parameter | Units | 35438288001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/L | 11400 | 7410 | 18400 | 94 | 90-110 | |

MATRIX SPIKE SAMPLE: 2721974

| Parameter | Units | 35438067004 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/L | 303 | 4940 | 5060 | 96 | 90-110 | |

SAMPLE DUPLICATE: 2721971

| Parameter | Units | 35438288001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/L | 11400 | 11500 | 1 | 20 | |

SAMPLE DUPLICATE: 2721973

| Parameter | Units | 35438067004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/L | 303 | 318 | 5 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

# QUALIFIERS

Project: Surface Water Central cty
Pace Project No.: 35438297

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

## ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.



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Ormond Beach, FL 32174
(386)672-5668

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Surface Water Central cty
Pace Project No.: 35438297

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **35438297001** | **Pond 1 RE (at STW-1) 28824** | EPA 410.4 | 503616 | EPA 410.4 | 503747 |
| **35438297002** | **Pond 2 RE (at STW-2) 28825** | EPA 410.4 | 503616 | EPA 410.4 | 503747 |
| **35438297003** | **Field Blank 121718** | EPA 410.4 | 503616 | EPA 410.4 | 503747 |



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Pace Analytical

# CHAIN-OF-CUSTODY / Analytical Request F

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields m

**WO# : 35438297**

35438297

| Section A – Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | Sarasota County | Report To: | Mr. Cesar Rodriguez | Attention: | |
| Address: | 1255 T. Mabry Carlton Parkway | Copy To: | | Company Name: | |
| Venice, FL 34292 | | | | Address: | Regulatory Agency |
| Email: | | Purchase Order #: | 181191 | Pace Quote: | |
| Phone: | Fax: | Project Name: | Surface Water Central cty | Pace Project Manager: | Martha.Montero@pacelabs.com, |
| Requested Due Date: | | Project #: | | Pace Profile #: | 833 #4 |
| | | | | | State / Location: FL |

| ITEM # | SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique) | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED START DATE | COLLECTED START TIME | COLLECTED END DATE | COLLECTED END TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | H2SO4 / Ice | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | Requested Analysis Filtered (Y/N): Analyses Test Y/N | COD | H2SO4 | Residual Chlorine (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Pond 1 (at STW-1) 28824 | WT | | 12/17/18 | 1250 | | | | 1 | | x | | | | | | | 1 | | | |
| 2 | Pond 2 (at STW-2) 28825 | WT | | 12/17/18 | 1325 | | | | 1 | | x | | | | | | | 1 | | | |
| 3 | Field Blank | WT | | 12/17/18 | 1300 | | | | 1 | | x | | | | | | | 1 | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
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| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |

Please use Adapt

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| surface waters for Central County | Ronald Moore / Sarasota County | 12/20/18 | 0915 | H. BOGUES / PACE | 12/20/18 | 1129 | T202 | | | |
| | H. BOGUES / PACE | 12/20/18 | 1400 | [illegible] / PACE | 122018 | 1400 | 1.3 | Y | N | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Ronald Moore Ron Moore

SIGNATURE of SAMPLER: [signature] DATE Signed: 12/20/18

| Pace Analytical Florida Laboratory | Document Name: Sample Condition Upon Receipt Form | Document Revised: May 30, 2018 |
|---|---|---|
| | Document No.: F-FL-C-007 rev. 13 | Issuing Authority: Pace Florida Quality Office |

## Sample Condition Upon Receipt Form (SCUR)

**Project # WO# : 35438297**

**Project Manager: PM: MIM** **Due Date: 01/07/19**

**Client: CLIENT: SARCOU**

**Date and Initials of person:**
Examining contents: DS
Label:
Deliver: 12/20/18
pH:

Thermometer Used: T-202 Date: 12-20-18 Time: 1400 Initials: KJM

State of Origin: FL ☐ For WV projects, all containers verified to ≤6 °C

| | | | | |
|---|---|---|---|---|
| Cooler #1 Temp.°C 1.3 | (Visual) 0.0 | (Correction Factor) 1.3 | (Actual) | ☑ Samples on ice, cooling process has begun |
| Cooler #2 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| Cooler #3 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| Cooler #4 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| Cooler #5 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |
| Cooler #6 Temp.°C | (Visual) | (Correction Factor) | (Actual) | ☐ Samples on ice, cooling process has begun |

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

**Shipping Method:** ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

**Billing:** ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

**Tracking #**

**Custody Seal on Cooler/Box Present:** ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

**Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

**Samples shorted to lab (If Yes, complete)** Shorted Date: Shorted Time: Qty:

**Comments:**

| | | |
|---|---|---|
| Chain of Custody Present | ☑ Yes ☐ No ☐ N/A | |
| Chain of Custody Filled Out | ☑ Yes ☐ No ☐ N/A | |
| Relinquished Signature & Sampler Name COC | ☑ Yes ☐ No ☐ N/A | |
| Samples Arrived within Hold Time | ☑ Yes ☐ No ☐ N/A | |
| Rush TAT requested on COC | ☐ Yes ☑ No ☐ N/A | |
| Sufficient Volume | ☑ Yes ☐ No ☐ N/A | |
| Correct Containers Used | ☑ Yes ☐ No ☐ N/A | |
| Containers Intact | ☑ Yes ☐ No ☐ N/A | |
| Sample Labels match COC (sample IDs & date/time of collection) | ☑ Yes ☐ No ☐ N/A | |
| All containers needing acid/base preservation have been checked.<br>All Containers needing preservation are found to be in compliance with EPA recommendation:<br>Exceptions: VOA, Coliform, TOC, O&G, Carbamates | ☑ Yes ☐ No ☐ N/A<br>☑ Yes ☐ No ☐ N/A | Preservation Information:<br>Preservative:<br>Lot #/Trace #:<br>Date: Time:<br>Initials: |
| Headspace in VOA Vials? ( >6mm): | ☐ Yes ☐ No ☑ N/A | |
| Trip Blank Present: | ☐ Yes ☐ No ☑ N/A | |

**Client Notification/ Resolution:**
Person Contacted: Date/Time:

**Comments/ Resolution (use back for additional comments):**

Project Manager Review: Date:

DEP-SOP-001/01
FT 1100 Field Measurement of Hydrogen Ion Activity (pH)

**Form FD 9000-7: Field Parameter Data Sheet for Surface Water**

SURVEY/PROJECT: Central County 2nd Semi Annual SW SAMPLERS: Ronald Moore METER # YSI-556 HACH 2100Q

| STATION NUMBER | STATION DESCRIPTION | PARAMETER | DATE | TIME | TOTAL DEPTH | SAMPLE DEPTH | WATER TEMP | DO | %SAT DO | COND | SALINITY | PH | TURBIDITY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | UNIT | yy/mm/dd | hr:min | feet | feet | Celsius | mg/L | % | µS/cm | ppt | su | NTU |
| | | STORET CODE | 73672 | | 81903 | 68 | 10 | 299 | 301 | 94 | 480 | 400 | 82078 |
| 28824 | Pond 1 | | 18/12/17 | 1250 | 1.5 | 0.5 | 16.80 | 3.41 | – | 616 | – | 6.05 | 4.03 |
| 28825 | Pond 2 | | 18/12/17 | 1325 | 1.5 | 0.5 | 20.06 | 6.58 | – | 520 | – | 7.64 | 6.85 |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ |
| | | | | | | | | | | | | | |
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FIELD CONDITIONS FOR STATION# _____ AT TIME _____:

CLOUD COVER (%): _____ WIND DIRECTION: _____ TIDAL STAGE: _____

PREVIOUS RAINFALL: _____ WIND SPEED (MPH/KNOTS): _____ WAVE CONDITIONS: _____

Note: This Sheet is used for recording Sample Data – Calibration information must also be documented

Revision Date: February 1, 2004

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: NAM-1 | SAMPLE ID: 29091 | DATE: 10/1/18 |

TOC: 19.87

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 2.14 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 14.5 feet – 2.14 feet) X 0.16 gallons/foot = 2.0 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.2 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.2 | PURGING INITIATED AT: 0931 | PURGING ENDED AT: 1000 | TOTAL VOLUME PURGED (gallons): 3.0 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0950 | 2.0 | 2.0 | 0.11 | 2.73 | 6.98 | 27.79 | 900 | 0.09 | 0.52 | Clear | None |
| 0955 | 0.5 | 2.5 | 0.11 | 2.73 | 6.98 | 27.73 | 902 | 0.08 | 0.55 | Clear/Light Tan | None |
| 1000 | 0.5 | 3.0 | 0.11 | 2.73 | 6.98 | 27.71 | 903 | 0.08 | 0.62 | ↓ | ↓ |
| | | " | " | " | " | " | " | " | " | " | " |

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): Alison Eggleston | SAMPLING INITIATED AT: 1002 | SAMPLING ENDED AT: 1007 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 3.2 | TUBING MATERIAL CODE: S / HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| AGB | 1 | HDPE | 500 mL | HNO3 & wet ice | N/A | <2 | Metals | APP | 400 |
| AGBC | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | <2 | Total Ammonia | APP | ↓ |
| AGEA | 1 | HDPE | 1 L | H2SO4 & wet ice | N/A | N/A | Misc. Inorganics | APP | ↓ |
| | | | | | | | | | |
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REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: NAM-2 | SAMPLE ID: 29092 | DATE: 10/1/18 |

TOC: 20.02

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 2.66 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 14.5 feet – 2.66 feet) X 0.16 gallons/foot = 1.91 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.7 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.7 | PURGING INITIATED AT: 1128 | PURGING ENDED AT: 1156 | TOTAL VOLUME PURGED (gallons): 2.9 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) ~~µmhos/cm~~ or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1146 | 1.9 | 1.9 | 0.11 | 2.78 | 6.85 | 27.89 | 745 | 0.09 | 0.31 | Clear/Lt Sheen | None |
| 1151 | 0.5 | 2.4 | 0.11 | 2.78 | 6.85 | 27.89 | 742 | 0.08 | 0.22 | Clear/Lt Sheen | None |
| 1156 | 0.5 | 2.9 | 0.11 | 2.78 | 6.86 | 27.99 | 741 | 0.07 | 0.46 | Clear/Lt Sheen | None |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): Alison Eggleston | SAMPLING INITIATED AT: 1158 | SAMPLING ENDED AT: 1205 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 3.7 | TUBING MATERIAL CODE: HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: (Y) ( N ) QC | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| QC A/B | 1 | HDPE | 500 mL 250 mL | HNO3 & wet ice | N/A | / | Metals | APP | 400 |
| QC B/C | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | | Total Ammonia | APP | |
| QC C/A | 1 | HDPE | 1 L | H2SO4 & wet ice | N/A | N/A | Misc. Inorganics | APP | |
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REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: NAM-3 | SAMPLE ID: 29093 | DATE: 10/1/18 |

TOC: 30.62

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 2.37 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= ( 14.5 feet – 2.37 feet) X 0.16 gallons/foot = 1.9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.4 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.4 | PURGING INITIATED AT: 1241 | PURGING ENDED AT: 1309 | TOTAL VOLUME PURGED (gallons): 2.9 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) umho/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/l or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1259 | 1.9 | 1.9 | 0.11 | 2.88 | 6.36 | 26.89 | 563 | 0.08 | 0.73 | clear/ltbrn | None |
| 1304 | 0.5 | 2.4 | 0.11 | 2.88 | 6.41 | 26.89 | 564 | 0.09 | 0.91 | clear/ltbrn | None |
| 1309 | 0.5 | 2.9 | 0.11 | 2.88 | 6.44 | 26.82 | 565 | 0.07 | 0.36 | clear/ltbrn | None |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1311 | SAMPLING ENDED AT: 1315 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 3.4 | TUBING MATERIAL CODE: S / HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| NAM-3 B | 1 | HDPE | ~~500~~ 550 mL | HNO3 & wet ice | N/A | | Metals | APP | 400 |
| NAM-3 C | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | | Total Ammonia | APP | |
| NAM-3 A | 1 | HDPE | 1 L | H2SO4 & wet ice | N/A | N/A | Misc. Inorganics | APP | |
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REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)**

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: NAM-4 | SAMPLE ID: 29094 | DATE: 10/1/18 |

NGVD 11

TOC: 22.66

17.42

3.24

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 5.24 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 14.5 feet – 5.24 feet) X 0.16 gallons/foot = 1.5 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.3 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.3 | PURGING INITIATED AT: 1341 | PURGING ENDED AT: 1403 | TOTAL VOLUME PURGED (gallons): 2.3 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) umhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1355 | 1.5 | 1.5 | 0.11 | 5.69 | 6.24 | 27.21 | 548 | 0.09 | 0.49 | Clear/Brown | None |
| 1359 | 0.4 | 1.9 | 0.11 | 5.69 | 6.24 | 27.14 | 551 | 0.08 | 0.53 | Clear/Brown | None |
| 1403 | 0.4 | 2.3 | 0.11 | 5.69 | 6.23 | 27.04 | 549 | 0.07 | 0.58 | Clear/Brown | None |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston~~ / Sarasota County Ronald Byers | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1405 | SAMPLING ENDED AT: 1415 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 6.3 | TUBING MATERIAL CODE: S/HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| ~~MW-2~~ B | 1 | HDPE | ~~500~~ mL ~~250~~ | HNO3 & wet ice | N/A | | Metals | APP | 400 |
| MW-2 C | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | \ | Total Ammonia | APP | |
| MW-2 A | 1 | HDPE | 1 L | H2SO4 & wet ice | N/A | N/A | Misc. Inorganics | APP | / |
| | | | | | | | | | |
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REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-20A | SAMPLE ID: 27141 | DATE: 10/2/18 |

TOC: 27.38

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 8.76 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 22.5 feet – 8.76 feet) X 0.16 gallons/foot = 2.2 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.8 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.0 | PURGING INITIATED AT: 0940 | PURGING ENDED AT: 1022 | TOTAL VOLUME PURGED (gallons): 3.4 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1008 | 2.2 | 2.2 | 0.08 | 10.63 | 6.60 | 28.89 | 585 | 0.09 | 1.02 | clear | None |
| 1015 | 0.6 | 2.8 | 0.08 | 10.67 | 6.62 | 28.79 | 570 | 0.09 | 0.66 | Clear | None |
| 1022 | 0.6 | 3.4 | 0.08 | 10.69 | 6.62 | 28.76 | 563 | 0.10 | 0.75 | Clear | None |
| | | // | / | / | / | / | / | / | / | / | / |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1025 | SAMPLING ENDED AT: 1035 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 11.0 | TUBING MATERIAL CODE: S ; HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (Including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | APP | 300 |
| D, E | 2 | CG | 40 mL | Wet Ice | N/A | N/A | 8011-EDB App. I | APP | \| |
| QEFG | 1 | HDPE | 500 mL | HNO3 & wet Ice | N/A | — | Metals – App. I | APP | \| |
| QEF | 1 | HDPE | 250 mL | H2SO4 & wet Ice | N/A | — | Nutrients – App. I | APP | \| |
| QEAH | 1 | HDPE | 1 L | Wet Ice | N/A | N/A | Misc. Inorg. App. I | APP | \| |
| | | | | | | | | | |

REMARKS: Slight odor in air while filling sample bottles. (Downwind of Active Face of L/F)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-19A | SAMPLE ID: 27140 | DATE: 10/2/18 |

TOC: 27.52

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: 12 feet to 22 feet | STATIC DEPTH TO WATER (feet): 7.83 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= ( 22.5 feet – 7.83 feet) X 0.16 gallons/foot = 2.4 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.8 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.5 | PURGING INITIATED AT: 1128 | PURGING ENDED AT: 1214 | TOTAL VOLUME PURGED (gallons): 3.6 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1158 | 2.4 | 2.4 | 0.08 | 8.81 | 6.65 | 29.71 | 642 | 0.12 | 0.47 | Clear | None |
| 1206 | 0.6 | 3.0 | 0.08 | 8.83 | 6.65 | 29.74 | 655 | 0.11 | 0.98 | Clear | None |
| 1214 | 0.6 | 3.6 | 0.08 | 8.84 | 6.65 | 29.66 | 667 | 0.11 | 0.42 | Clear | None |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Allison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): Allison Eggleston | SAMPLING INITIATED AT: 1216 | SAMPLING ENDED AT: 1223 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 9.5 | TUBING MATERIAL CODE: S) HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | APP | 300 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | APP | |
| OE FG | 1 | HDPE | 500 mL 250 OE | HNO3 & wet ice | N/A | < 2 | Metals – App. I | APP | |
| OE BF | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | < 2 | Nutrients – App. I | APP | |
| KH BE | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | APP | |
| | | | | | | | | | |

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-18R | SAMPLE ID: 29095 | DATE: 10/2/18 |

TOC: 28.33

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 9.48 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= ( 18.63 feet – 9.48 feet) X 0.16 gallons/foot = 1.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5 | PURGING INITIATED AT: 1259 | PURGING ENDED AT: 1328 | TOTAL VOLUME PURGED (gallons): 2.3 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1318 | 1.5 | 1.5 ~~0.08~~ | 0.08 | 10.05 | 6.00 | 30.40 | 612 | 0.08 | 1.12 | It Sheen Clear | None |
| 1323 | 0.4 | 1.9 | 0.08 | 10.09 | 6.00 | 30.36 | 615 | 0.07 | 1.26 | It Shen Clear | None |
| 1328 | 0.4 | 2.3 | 0.08 | 10.11 | 6.01 | 30.35 | 613 | 0.07 | 1.15 | It Shen Clear | None |
| | | // | / | / | / | / | / | / | / | / | / |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1330 | SAMPLING ENDED AT: 1345 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 10.5 | TUBING MATERIAL CODE: S / HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: (Y) ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | APP | 300 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | APP | |
| ~~G~~ G | 1 | HDPE | ~~500 mL~~ 250 ml | HNO3 & wet ice | N/A | — | Metals – App. I | APP | |
| ~~F~~ F | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | — | Nutrients – App. I | APP | |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | APP | |
| | | | | | | | | | |

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-1R | SAMPLE ID: 20585 | DATE: 10/3/18 |

TOC: 24.428

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 3.03 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= ( 15.7 feet – 3.03 feet) X 0.16 gallons/foot = 2.0 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.0 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.0 | PURGING INITIATED AT: 0900 | PURGING ENDED AT: 0946 | TOTAL VOLUME PURGED (gallons): 3.8 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0925 | 2.0 | 2.0 | 0.08 | 3.57 | 6.15 | 27.57 | 307 | 0.08 | 0.92 | Lt Amber | None |
| 0932 | 0.6 | 2.6 | 0.08 | 3.59 | 6.16 | 27.61 | 321 | 0.06 | 1.00 | Lt Amber | None |
| 0939 | 0.6 | 3.2 | 0.08 | 3.60 | 6.19 | 27.74 | 330 | 0.06 | 0.91 | Lt Amber | None |
| 0946 | 0.6 | 3.8 | 0.08 | 3.62 | 6.18 | 27.66 | 330 | 0.06 | 0.96 | Lt Amber | None |
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): Ali Eggleston | SAMPLING INITIATED AT: 0948 | SAMPLING ENDED AT: 0955 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 4.0 | TUBING MATERIAL CODE: S / HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | APP | 300 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | APP | \| |
| QAPG | 1 | HDPE | 500 mL 250 ml | HNO3 & wet ice | N/A | \| | Metals – App. I | APP | \| |
| QEPF | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | \| | Nutrients – App. I | APP | \| |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | APP | \| |
| | | | | | | | | | |

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-8A | SAMPLE ID: 21453 | DATE: 10/3/18 |

TOC: 35.40

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 14.70 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= ( 22.4 feet – 14.70 feet) X 0.16 gallons/foot = 1.3 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.7 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.7 | PURGING INITIATED AT: 1027 | PURGING ENDED AT: 1054 | TOTAL VOLUME PURGED (gallons): 2.1 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1044 | 1.3 | 1.3 | 0.08 | 15.27 | 6.22 | 27.48 | 1093 | 0.11 | 2.40 | Clear | None |
| 1049 | 0.4 | ~~0.4~~ 1.7 | 0.08 | 15.29 | 6.23 | 27.44 | 1103 | 0.10 | 2.58 | Clear | None |
| 1054 | 0.4 | ~~0.4~~ 2.1 | 0.08 | 15.30 | 6.23 | 27.52 | 1106 | 0.11 | 2.60 | Clear | None |
| | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston~~ / Sarasota County DE Donald Moore | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1100 | SAMPLING ENDED AT: 1115 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 15.7 | TUBING MATERIAL CODE: S / HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | NA | 8260-vocs App. I | APP | 300 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | APP | \| |
| DE FG | 1 | HDPE | ~~500 mL~~ 250 mL | HNO3 & wet ice | N/A | \| | Metals – App. I | APP | \| |
| DE FF | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | \| | Nutrients – App. I | APP | \| |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | APP | \| |
| | | | | | | | | | |

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-9 | SAMPLE ID: 4509 | DATE: 10/3/18 |

TOC : 32.08

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 0.25 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 11.40 | PURGE PUMP TYPE OR BAILER: PP |
|---|---|---|---|---|

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= ( 22.8 feet – 11.40 feet) X 0.16 gallons/foot = 1.9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.4 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.4 | PURGING INITIATED AT: 1152 | PURGING ENDED AT: 1220 | TOTAL VOLUME PURGED (gallons): 2.9 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) umhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1210 | 1.9 | 1.9 | 0.11 | ~~11.90~~ ~~10.90~~ | 6.56 | 30.24 | 1451 | 0.17 | 1.33 | Sheen Clear | None |
| 1215 | 0.5 | 2.4 | 0.11 | ~~11.90~~ ~~10.90~~ | 6.56 | 30.25 | 1459 | 0.14 | 1.53 | Clear Sheen | None |
| 1220 | 0.5 | 2.9 | 0.11 | 11.90 | 6.57 | 30.30 | 1487 | 0.11 | 3.86 | Clear Sheen | None |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1222 | SAMPLING ENDED AT: 1230 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 12.4 | TUBING MATERIAL CODE: S / HDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/R | 8260-vocs App. I | APP | 400 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | APP | |
| ~~OE~~ F G | 1 | HDPE | ~~500 mL~~ 250 ml | HNO3 & wet ice | N/A | | Metals – App. I | APP | |
| ~~OE~~ F F | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | | Nutrients – App. I | APP | |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | APP | |
| | | | | | | | | | |

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-17 | SAMPLE ID: 23033 | DATE: 10/4-18 |

TOC: 46.15

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 27.05 | PURGE PUMP TYPE OR BAILER: ESP |
|---|---|---|---|---|

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= ( 32.6 feet – 27.05 feet) X 0.16 gallons/foot = 0.9 gallons

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28.0 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28.0 | PURGING INITIATED AT: 0946 | PURGING ENDED AT: 1016 | TOTAL VOLUME PURGED (gallons): 1.5 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) umhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/l or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1004 | 0.9 | 0.9 | 0.05 | 28.0-28.5 | 6.37 | 28.26 | 1798 | 0.04 | 2.24 | Sheen Lt Amber | None |
| 1010 | 0.3 | 1.2 | 0.05 | 28.0-28.5 | 6.36 | 28.06 | 1800 | 0.03 | 4.67 | Sheen Lt Amber | None |
| 1016 | 0.3 | 1.5 | 0.05 | 28.0-28.5 | 6.36 | 28.06 | 1810 | 0.03 | 1.39 | Sheen Lt Amber | None |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: ~~Alison Eggleston~~ Ronald Moore Sarasota County | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1020 | SAMPLING ENDED AT: 1040 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 28.0 | TUBING MATERIAL CODE: LDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP ( Y ) N | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | ESP | 200 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | ESP | |
| ~~QEFG~~ | 1 | HDPE | ~~500 mL~~ 250 mL | HNO3 & wet ice | N/A | | Metals – App. I | ESP | |
| ~~QEPF~~ | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | | Nutrients – App. I | ESP | |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | ESP | |
| | | | | | | | | | |

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-16 | SAMPLE ID: 23032 | DATE: 10/4/18 |

TOC: 43.93

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 23.80 | PURGE PUMP TYPE OR BAILER: ESP |
|---|---|---|---|---|

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 30.3 feet – 23.80 feet) X 0.16 gallons/foot = 1.0 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.80 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.80 | PURGING INITIATED AT: 1153 | PURGING ENDED AT: 1225 | TOTAL VOLUME PURGED (gallons): 1.6 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) umhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1213 | 1.0 | 1.0 | 0.05 | 24.3-24.8 | 6.32 | 29.17 | 2422 | 0.07 | 0.78 | Sheen Lt. Amber | None |
| 1219 | 0.3 | 1.3 | 0.05 | 24.3-24.8 | 6.33 | 29.22 | 2420 | 0.05 | 2.31 | Sheen Lt. Amber | None |
| 1225 | 0.3 | 1.6 | 0.05 | 24.3-24.8 | 6.33 | 29.20 | 2422 | 0.04 | 1.03 | Sheen Lt. Amber | None |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Alison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1230 | SAMPLING ENDED AT: 1240 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 24.80 | TUBING MATERIAL CODE: LDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP ( Y ) N | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | ESP | 200 |
| D, E | 2 | CG | 40 mL | Wet Ice | N/A | N/A | 8011-EDB App. I | ESP | |
| QR F G | 1 | HDPE | 500 mL 250 mL | HNO3 & wet ice | N/A | | Metals – App. I | ESP | |
| QR F | 1 | HDPE | 250 mL | H2SO4 & wet Ice | N/A | | Nutrients – App. I | ESP | |
| H | 1 | HDPE | 1 L | Wet Ice | N/A | N/A | Misc. Inorg. App. I | ESP | |
| | | | | | | | | | |

REMARKS: Heavy Sheen

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-15 | SAMPLE ID: 23031 | DATE: 10/8/19 |

TOC: 44.32

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 23.51 | PURGE PUMP TYPE OR BAILER: ESP |
|---|---|---|---|---|

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= ( 30.5 feet – 23.51 feet) X 0.16 gallons/foot = 1.2 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5 | PURGING INITIATED AT: 0956 | PURGING ENDED AT: 1032 | TOTAL VOLUME PURGED (gallons): 1.8 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1020 | 1.2 | 1.2 | 0.05 | ~~24.5-25.0~~ | 6.82 | 29.01 | 3436 | 0.41 | 3.99 | Lt Green Amber | None |
| 1026 | 0.3 | 1.5 | 0.05 | ~~24.5-25.0~~ | 6.82 | 29.10 | 3437 | 0.32 | 4.29 | Lt Green Amber | None |
| 1032 | 0.3 | 1.8 | 0.05 | ~~24.5-25.0~~ | 6.81 | 29.14 | 3435 | 0.34 | 8.26 | Lt Green Amber | None |
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Allison Eggleston / Sarasota County Ronald Hagen | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1035 | SAMPLING ENDED AT: 1100 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 24.5 | TUBING MATERIAL CODE: LDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP ( Y ) N | TUBING Y ( N (replaced) ) | DUPLICATE: (Y) ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | ESP | 200 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | ESP | \| |
| QEFG | 1 | HDPE | ~~500~~ 250 mL | HNO3 & wet ice | N/A | \| | Metals – App. I | ESP | \| |
| QEFF | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | \| | Nutrients – App. I | ESP | \| |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | ESP | \| |
| | | | | | | | | | |

REMARKS: Heavy sheen on water

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

**NOTES:** 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

| SITE NAME: CCSWDC | SITE LOCATION: 4000 Knights Trail Rd, Nokomis FL 34275 | |
|---|---|---|
| WELL NO: MW-10R | SAMPLE ID: 4510 | DATE: 10/8/18 |

TOC: 39.49

## PURGING DATA

| WELL DIAMETER (inches): 2.0 | TUBING DIAMETER (inches): 3/8 | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 19.31 | PURGE PUMP TYPE OR BAILER: ESP |
|---|---|---|---|---|

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= ( 30.2 feet – 19.31 feet) X 0.16 gallons/foot = 1.8 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + ( gallons/foot X feet) + gallons = gallons

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20.3 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.3 | PURGING INITIATED AT: 1156 | PURGING ENDED AT: 1252 | TOTAL VOLUME PURGED (gallons): 2.8 |
|---|---|---|---|---|

| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) µmhos/cm or µS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1232 | 1.8 | 1.8 | 0.05 | 19.8-20.3 | 6.35 | 30.18 | 1642 | 0.07 | 0.73 | Slight Amber | None |
| 1242 | 0.5 | 2.3 | 0.05 | 1 | 6.36 | 30.34 | 1644 | 0.06 | 4.76 | Slight Amber | None |
| 1252 | 0.5 | 2.8 | 0.05 | 1 | 6.37 | 30.25 | 1642 | 0.08 | 0.66 | Slight Amber | None |
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
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WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

| SAMPLED BY (PRINT) / AFFILIATION: Allison Eggleston / Sarasota County | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1255 | SAMPLING ENDED AT: 1300 |
|---|---|---|---|
| PUMP OR TUBING DEPTH IN WELL (feet): 20.3 | TUBING MATERIAL CODE: LDPE | FIELD-FILTERED: Y ( N ) Filtration Equipment Type: | FILTER SIZE: ____ µm |
| FIELD DECONTAMINATION: PUMP Y ( N ) | TUBING Y ( N (replaced) ) | DUPLICATE: Y ( N ) | |

| SAMPLE CONTAINER SPECIFICATION | | | | SAMPLE PRESERVATION (Including wet ice) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SAMPLE ID CODE | # CONTAINERS | MATERIAL CODE | VOLUME | PRESERVATIVE USED | TOTAL VOL ADDED IN FIELD (mL) | FINAL pH | INTENDED ANALYSIS AND/OR METHOD | SAMPLING EQUIPMENT CODE | SAMPLE PUMP FLOW RATE (mL per minute) |
| A, B, C | 3 | CG | 40 mL | HCl & wet ice | N/A | N/A | 8260-vocs App. I | ESP | 200 |
| D, E | 2 | CG | 40 mL | Wet ice | N/A | N/A | 8011-EDB App. I | ESP | ↓ |
| OE F G | 1 | HDPE | 500 mL 250 mL | HNO3 & wet ice | N/A | ↓ | Metals – App. I | ESP | ↓ |
| OE F | 1 | HDPE | 250 mL | H2SO4 & wet ice | N/A | ↓ | Nutrients – App. I | ESP | ↓ |
| H | 1 | HDPE | 1 L | Wet ice | N/A | N/A | Misc. Inorg. App. I | ESP | ↓ |
| | | | | | | | | | |

REMARKS: Heavy sheen on water.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

# BENCHMARK
## *EnviroAnalytical Inc.*

NELAC Certification #E84167

# ANALYTICAL TEST REPORT
## THESE RESULTS MEET NELAC STANDARDS

**Submission Number :** 18101395

Sarasota County Utilities Oper
1255 T. Mabry Carlton Pkwy
Venice, FL 34293

**Project Name :** CENTRAL COUNTY SW
**Date Received :** 10/31/2018
**Time Received :** 1520

Cesar Rodriguez

**Submission Number:** 18101395
**Sample Number:** 001
**Sample Description:** Pond-1
**Sample Date:** 10/31/2018
**Sample Time:** 1015
**Sample Method:** Grab

| Parameter | Result | Units | MDL | PQL | Procedure | Analysis Date/Time | Analyst |
|---|---|---|---|---|---|---|---|
| FECAL COLIFORM | 60 BV | #/100 ML | 10 | 10 | SM9222D | 10/31/2018 16:09 | KD |

**Submission Number:** 18101395
**Sample Number:** 002
**Sample Description:** Pond-2
**Sample Date:** 10/31/2018
**Sample Time:** 0910
**Sample Method:** Grab

| Parameter | Result | Units | MDL | PQL | Procedure | Analysis Date/Time | Analyst |
|---|---|---|---|---|---|---|---|
| FECAL COLIFORM | 300 V | #/100 ML | 10 | 10 | SM9222D | 10/31/2018 16:09 | KD |

**Submission Number:** 18101395
**Sample Number:** 003
**Sample Description:** Field Blank
**Sample Date:** 10/31/2018
**Sample Time:** 0900
**Sample Method:** Grab

| Parameter | Result | Units | MDL | PQL | Procedure | Analysis Date/Time | Analyst |
|---|---|---|---|---|---|---|---|
| FECAL COLIFORM | 100 BV | #/100 ML | 10 | 10 | SM9222D | 10/31/2018 16:09 | KD |

**Submission Number:** 18101395
**Sample Number:** 004
**Sample Description:** Duplicate
**Sample Date:** 10/31/2018
**Sample Time:** 1015
**Sample Method:** Grab

| Parameter | Result | Units | MDL | PQL | Procedure | Analysis Date/Time | Analyst |
|---|---|---|---|---|---|---|---|
| FECAL COLIFORM | 130 BV | #/100 ML | 10 | 10 | SM9222D | 10/31/2018 16:09 | KD |


1711 12th Street East * Palmetto, FL 34221 * Phone (941) 723-9986 * Fax (941) 723-6061

Dale D. Dixon / Laboratory Director — 11/02/2018 Date

Tülay Tanrisever / Kara Peterson - QC/QA Officers

**DATA QUALIFIERS THAT MAY APPLY:**

A = Value reported is an average of two or more determinations.
B = Results based upon colony counts outside the ideal range.
H = Value based on field kit determination. Results may not be accurate.
I = Reported value is between the laboratory MDL and the PQL.
J1 = Estimated value. Surrogate recovery limits exceeded.
J2 = Estimated value. No quality control criteria exists for component.
J3 = Estimated value. Quality control criteria for precision or accuracy not met.
J4 = Estimated value. Sample matrix interference suspected.
J5 = Estimated value. Data questionable due to improper lab or field protocols.
K = Off-scale low. Value is known to be < the value reported.
L = Off-scale high. Value is known to be > the value reported.
N = Presumptive evidence of presence of material.
O = Sampled, but analysis lost or not performed.
Q = Sample held beyond accepted hold time.
T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.
U = Analyte analyzed but not detected at the value indicated.
V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard, Duplicate and Spike values are within control limits. Reported data are usable.
Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.
Z = Too many colonies were present (TNTC). The numeric value represents the filtration volume.
! = Data deviate from historically established concentration ranges.
? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
* = Not reported due to interference.
Oil & Grease - If client does not send sufficient sample quantity for spike evaluation surface water samples are supplied by the laboratory.

**NOTES:**

MBAS calculated as LAS; molecular weight = 340.
PQL = 4xMDL.
ND = Not detected at or above the adjusted reporting limit.
X = Value exceeds MCL.
G1 = Accuracy standard does not meet method control limits, but does meet lab control limits that are in agreement with USEPA generated data. USEPA letter available upon request.

**COMMENTS:**

For questions or comments regarding these results, please contact us at (941) 723-9986.

*Results relate only to the samples.*

**Benchmark EnviroAnalytical, Inc.**
1711 Twelfth Street East
Palmetto, FL 34221
(941) 723-9986
(941) 723-6061 fax
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**Client:** **Sarasota County Environmental Services**
Resource Management
1255 T. Mabry Carlton Parkway
Venice, FL 34292
(941) 650-9834
(941) 650-1112
(941) 480-3558 fax

Project Name: Central County Surface water
Purchase Order Number: 180708

Laboratory Submission #: 1810 1395

| Station ID: | Sample Matrix[2] | Sample Type[1] | **Analysis Requested:** | | | Laboratory Sample # |
|---|---|---|---|---|---|---|
| | | | Fecal coliform | | | |
| | | | Preservative: Sodium Thiosulfate | | | |
| QC ~~SW Pond- SW-1~~ (28824) Pond-1 | surface | Grab | Date & Time: 10/31/18 1015 | | | 1 |
| QC ~~NE Pond -SW-2~~ (28825) Pond-2 | surface | Grab | Date & Time: 10/31/18 0910 | | | 2 |
| Field Blank | surface | Grab | Date & Time: 10/31/18 0900 | | | 3 |
| Duplicate | surface | Grab | Date & Time: 10/31/18 1015 | | | 4 |
| | | | Date & Time: | | | |
| | | | Date & Time: | | | |
| | | | Date & Time: | | | |

1 "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
2 "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).
3 "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
4 **Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 4°C (39.2°F).**
Under "Preservative," list any preservatives that were added to the sample container.

Laboratory Sample Acceptability: pH <2 : ☑
BEAS Temperature:
BEA Temperature: 2.8°c

Instructions:
1. Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.
2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
3. All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
4. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

| | Collector – Relinquished by: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|---|
| 1 | Ronald L. Moore | 10/31/18 | 1115 | | 10/31/18 | 1335 |
| 2 | Relinquished by: | Date: | Time: | Received By: | Date: | Time: |
| | | 10/31/18 | | | 10/31/18 | 1520 |
| 3 | Relinquished by: | Date: | Time | Received By: | Date: | Time |
| | | | | | | |