

**PROJECT: Water and Wastewater Services (WWS)**

<p><b>1. DESCRIPTION:</b> Analysis of non-drinking BCWWS-WWOD Haz-Mat Facility wells for Wellfield Protection Monitoring.</p>
<p><b>2. PURPOSE/GOALS:</b> Provide quality analytical results to fellow County agency for use in EPGMD wellfield permit reporting.</p>
<p><b>3. USE OF DATA:</b> N/A</p>
<p><b>4. RELEVANCE:</b> Supports our mission of providing quality customer service to other County agencies and allows us to use instruments and personnel to full potential.</p>
<p><b>5. EFFECTIVENESS:</b> Quality of data provided by EPGMD-EMD is widely accepted by EPGMD permit managers.</p>
<p><b>6. PARAMETERS:</b> Total Petroleum Hydrocarbons (TPH) by FL-PRO and Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270 for the 15 PAHs specified in the wellfield protection permits. Both methods require continuous neutral extraction.</p>
<p><b>7. FREQUENCY/DURATION/SCHEDULE:</b> Quarterly analysis of 23 sample points. BCWWS will collect samples on Tuesdays and Thursdays of the last two weeks of the first two months during of each quarter. If wells are not in production at time of sampling, WWS will notify EPGMD-EMD that they are being sampled later in the quarter. All sampling is to be complete by two weeks before the end of the quarter. Samples are scheduled by BCWWS and Bill Perkins will forward schedule to EPGMD-EMD (Naveen Mechan/Jorge Rivera) before the beginning of each month of sampling.</p>

<b>Location</b>	<b>Permit #</b>	<b>Test Methods</b>	<b>FL-PRO</b>	<b>PAH</b>
1A-WTF (MW-1, MW-2) 3701 N. St. Rd.7 Laud. Lakes	WHS-02224	PAHs by EPA SW 846 8270 (or equivalent), TPH by FL-PRO	✓✓	✓✓
1A-WTF (PW3,PW4,PW5,PW7) 3701 N. St. Rd.7 Laud. Lakes	WHS-02224	PAHs by EPA SW 846 8270 (or equivalent), TPH by FL-PRO	✓✓✓	✓✓✓✓
2A-WTF (MW2A Plant) 1390 NE 50 St. Pomp. Beach	WHS-00167	PAHs by EPA SW 846 8270 (or equivalent)		✓
2A-WTF (PW4,PW6,PW7,PW8,PW10, PW11) 1390 NE 50 St. Pomp. Beach	WHS-00167	PAHs by EPA SW 846 8270 (or equivalent), TPH by FL-PRO	✓✓✓✓✓✓	✓✓✓✓
3B-WSF 4550 SW 38 St. Hollywood	WHS-02226	PAHs by EPA SW 846 8270 (or equivalent), TPH by FL-PRO	✓	✓
SRWF (PW#18, PW#21) 9501 Sheridan St. Cooper City (BP Park)	WHS-00293-	PAHs by EPA SW 846 8270 (or equivalent), TPH by FL-PRO		✓✓
NRWF (PW#1) 6601 N. Powerline Rd. Deerfield Bch (QW Park)	WHM-02768	PAHs by EPA SW 846 8270 (or equivalent), TPH by FL-PRO		✓
NRWF (PW#32) 4503 NW 7 Pl. Deerfield Bch.	WHM-01241	PAHs by EPA SW 846 8270 (or equivalent), TPH by FL-PRO		✓
MPS 440 (MW440) 200 Goolsby Blvd. Deerfield Bch	WHS-03084	PAHs by EPA SW 846 8270 (or equivalent), TPH by FL-PRO		✓
MPS 450 (MW450) 3701 N. St. Rd.7 Laud. Lakes	WHS-00681	PAHs by EPA SW 846 8270 (or equivalent), TPH by FL-PRO		✓
MPS 452 (MW452N,MW452S) 2001 NW 49 Ave. Lauderhill	WHS-00680	PAHs by EPA SW 846 8270 (or		✓✓

		equivalent), TPH by FL-PRO		
MPS 455 (MW455) 6113 NW 77 Way Tamarac	WHS-00679	PAHs by EPA SW 846 8270 (or equivalent)		✓
MPS 462 (MW462) 3800 NW 85 Way Coral Springs	WHS-00678	PAHs by EPA SW 846 8270 (or equivalent)		✓

**8. DELIVERABLES:** Analysis and reporting to be completed fourteen days before end of quarter. Final results must have permit numbers and facility name and address on each sheet. EPGMD-EMD to deliver results in monthly batches to BCWWS. All results must be provided to WWS for review within fourteen days of the end of each quarter.

**9. SPECIAL EQUIPMENT/SUPPLIES CONSIDERATIONS:** Samples to be taken by WWS-WWOD personnel and stored refrigerated at WWS lab until EMD pickup. If WWS personnel are not able to deliver samples after sampling, EPGMD-EMD personnel will pick up samples at BCWWS lab on Wednesday morning before 10:00 a.m. and before 2:30 p.m. on Friday. **Bottles for samples will be provided by EPGMD-EMD and delivered to BCWWS quarterly.** BCWWS to label and preserve all samples. Initial estimate of bottles needed is 50 – 60 per quarter.

**10. UNIQUE QA/QC REQUIREMENTS:** Standard arrangements to be made for additional QC samples (3 bottles collected for one well per sample run per analysis method). WWS-WWOD to add ~2ml H2SO4 preservative for FL-PRO preservation. BCWWS will use EPGMD-EMD Chain of Custody which will be provided for each permitted site in Adobe .pdf format. BCWWS will complete one Chain of Custody for each facility by entering the sample date, sampling personnel, sample time and adding a check for each sample bottle collected and relinquish the COC to EPGMD-EMD personnel upon sample pickup. Upon receipt of the samples at EPGMD-EMD, sample custodian will assign a sample number for each sample and will give copy or send a scanned completed custody sheet to WWS, Bill Perkins at [wperkins@broward.org](mailto:wperkins@broward.org) within 24 hours.

**11. FUNDING/REVENUE:** Contract Fund paid by WWS \$10,000 annually.