CTEH®

THE SCIENCE OF READY℠

SOUTH 4 GROUP FIRE

Port Neches, TX

Preliminary Surface Water Sampling

Summary

December 14, 2019

Project #112312

1.0 Introduction

On November 27, 2019 at approximately 04:00 Central Standard Time (CST), TPC Group requested that CTEH® provide water sampling support in response to a tank fire at their facility located in Port Neches, Texas. CTEH® arrived on-site on November 27, 2019 at approximately 08:00 CST and began real-time air monitoring and analytical air sampling operations surrounding the site of the event. Upon arrival on site, TPC Group requested CTEH® to perform water sampling activities associated with surrounding surface waters and potential fire water runoff.

Surface water sampling efforts have been largely focused on areas in proximity to outfall locations as these reflect the downstream movement of potential effluent from the TPC facility and neighboring industries. Water samples from two background locations were also collected for results comparison.

As of December 11, 2019, an Environmental Sampling Reduction Plan was approved by UC to adjust sampling locations, frequency of sampling, and target analytes. This report includes surface water sampling results as well as adjusted sampling efforts from November 27, 2019 through December 11, 2019.

2.0 Methods

2.1 Water Sampling

CTEH® developed and implemented an Environmental Sampling and Analysis Plan (ESAP) to document and quantify the potential release of runoff liquids from the incident. The ESAP was approved by local, state, and federal representatives of the on-site Unified Command (UC). In accordance with the ESAP, surface water samples were collected at various locations to delineate the extent and nature of potential impact related to the fire and associated response activities. Following the approval of the Environmental Sampling Reduction Plan by UC, asbestos sampling was discontinued after December 11, 2019. A sampling summary, including locations, descriptions and samples collected to date are listed in **Table 1**. All samples were sent to third-party National Environmental Laboratory Accreditation Program (NELAP)-accredited laboratories for analysis using state or federal analytical methods, listed in **Table 2**. To ensure completeness, each laboratory report is also undergoing data verification and/or validation by an independent contractor.

The naming scheme for sampling involves the following:

PN = Port Neches; TX = Texas; date (MonthXXDayXX); XY (X = surface water, Y = background); Sample identification serial number by day (XXX); Sample team A or B. (Example: PNTX1201X010A)

Table 1. Surface Water Sampling Locations and Descriptions (see map in Attachment A)

Location Code	Location Description	Sample Frequency*	Samples Collected to Date	Results Received to Date (VOCs)	Results Received to Date (Asbestos)	Sample Start Date	Sample End Date
WS000	Background; Huntsman Dock at Neches River; NE of TPC	On Demand	1	1	0	11/27/2019	11/27/2019
WS001	Port Neches, near Atlantic Road; downstream from Outfall 001 (permitted discharge location)	On Demand	24	23	16	11/28/2019	12/9/2019
WS002	Water Treatment Wetlands Outlet; Outfall 004 (permitted discharge location)	Daily	27	23	15	11/27/2019	Ongoing
WS003	Orchard Avenue on Bridge over 001 Canal	Daily	29	24	18	11/28/2019	Ongoing
WS004	Atlantic Road N of Atlantic Canal; upstream of Outfall 001 (permitted discharge location)	On Demand	22	22	16	11/29/2019	12/9/2019
WS005	South of Facility	On Demand	1	1	0	11/29/2019	11/29/2019
WS006	N of Hwy 336 in a Controlled Level Water Structure; Outfall 001 canal	Daily	25	21	14	11/27/2019	Ongoing
WS007	N end of LNVA Canal to City of Port Neches; Park St. east of Baseball Field; raw water	On Demand	1	1	1	11/29/2019	11/29/2019
WS008	City of Port Neches Water Plant at Drinking Water Faucet	On Demand	1	1	0	11/30/2019	11/30/2019
WS009	Background; Collier's Ferry Park, south of Boat Ramp, Beaumont, TX	Daily	4	2	2	12/1/2019	Ongoing

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Location Code	Location Description	Sample Frequency*	Samples Collected to Date	Results Received to Date (VOCs)	Results Received to Date (Asbestos)	Sample Start Date	Sample End Date
WS010	TPC effluent to Joint Waste Water Treatment Plant (JWWTP); South of 366	Daily	9	6	3	12/1/2019	Ongoing
WS011	TPC Dock; water inlet	On Demand	1	1	1	12/2/2019	12/2/2019
WS014	Outfall 301; South of TPC facility at drainage culvert; JWWTP discharge from polishing ponds (permitted discharge location)	On Demand	9	9	5	12/3/2019	12/9/2019
WS015	Outfall 201 (Permitted discharge); SE corner of TPC facility	On Demand	8	8	2	12/4/2019	12/9/2019
WS016	Huntsman ditch; Division E	On Demand	2	2	1	12/6/2019	12/10/2019
WS017	JWWTP holding pond	Daily	9	6	0	12/5/2019	Ongoing
WS021	Upstream of Huntsman ditch	On Demand	1	1	0	12/8/2019	12/8/2019
WS022	W002 Block 6 Pond, NE of incident site	On Demand	1	1	0	12/8/2019	12/8/2019
WS023	Neches River downstream of confluence with Molasses Bayou	Daily	2	1	0	12/11/2019	Ongoing
WS024	Molasses Bayou between Neches River and Atlantic Rd.	Daily	2	1	0	12/11/2019	Ongoing
Estimated Totals to Date			**179**	**155**	**94**		

*Additional samples may be collected.

Table 2. Surface Water Sample Analytical Methods

Analysis	Method	Laboratory
Volatile Organic Compounds (VOCs) + TICs	EPA SWA-846 8260b	Pace analytical Services
Semi-volatile Organic Compounds (SVOCs)	EPA SWA-846 8270c (SCAN + SIM)	Pace analytical Services
	17 PAH	
Ethylene Glycol	US EPA Methods 8015	Pace analytical Services
Texas Total Petroleum Hydrocarbon (TX-TPH)	TX-1005	Pace analytical Services
PFAS (PFOS, PFOA, PFHxS Only)	EPA 537M	Pace analytical Services
Total Organic Carbon (TOC)	SM 5310C	Pace analytical Services
Oil and Grease	Method 1664	Pace analytical Services
Asbestos	EPA 100.2	EMSL Analytical, Inc.

2.2 Health-Based Screening Comparisons

Results from surface water samples were compared to applicable health-protective screening levels or background concentrations. It is important to note that the methods utilized to analyze surface water are also able to detect compounds unrelated to the TPC fire; therefore, the detection of a compound does not mean that the compound is directly related to the incident.

Because the Neches River Basin associated with the TPC facility and Joint Waste Water Treatment Plant (JWWTP) is not classified as drinking water sources but may be subject to community activities such as fishing, surface water samples were screened against the TCEQ's Tier 1 Surface Water Risk-Based Exposure Limit (RBEL) and Contact Recreation Water Protective Concentration Limits (PCLs). According to the Texas Risk Reduction Program (TRRP), "*…when a water body is not classified as a drinking water source, the TSWQS allow surface water quality standards to be set based solely on consideration of uptake of COCs into fish/shellfish and aquatic life criteria and it may be necessary to evaluate contact recreation (i.e., incidental ingestion and dermal contact with surface water)*[1]." A screening level of 7.0 million fibers/L has been selected for asbestos in surface water samples based on the United States Environmental Protection Agency (USEPA) water quality criteria[2]. The selection of the use of these screening levels was an agreed decision by Unified Command; however, it should be noted that this is a drinking water standard utilized for reference, as it is not applicable to surface water samples.

[1] TCEQ "Tier 1 Contact Recreation PCLs," 2006

[2] https://www.epa.gov/wqc/national-recommended-water-quality-criteria-human-health-criteria-table

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3.0 Surface Water Sampling Results

A map of all surface water sampling locations is provided in **Attachment A.** A cumulative detection summary for compounds of interest for surface water samples collected from November 27, 2019 through December 11, 2019 is provided in **Attachment B.** A daily summary of surface water sampling results for December 8, 2019 through December 11, 2019 is provided in **Attachment C.** Daily surface water results for asbestos have been received for December 6, 2019 and December 10, 2019, which are also provided in **Attachment C.**

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Attachment A

Surface Water Sampling Locations

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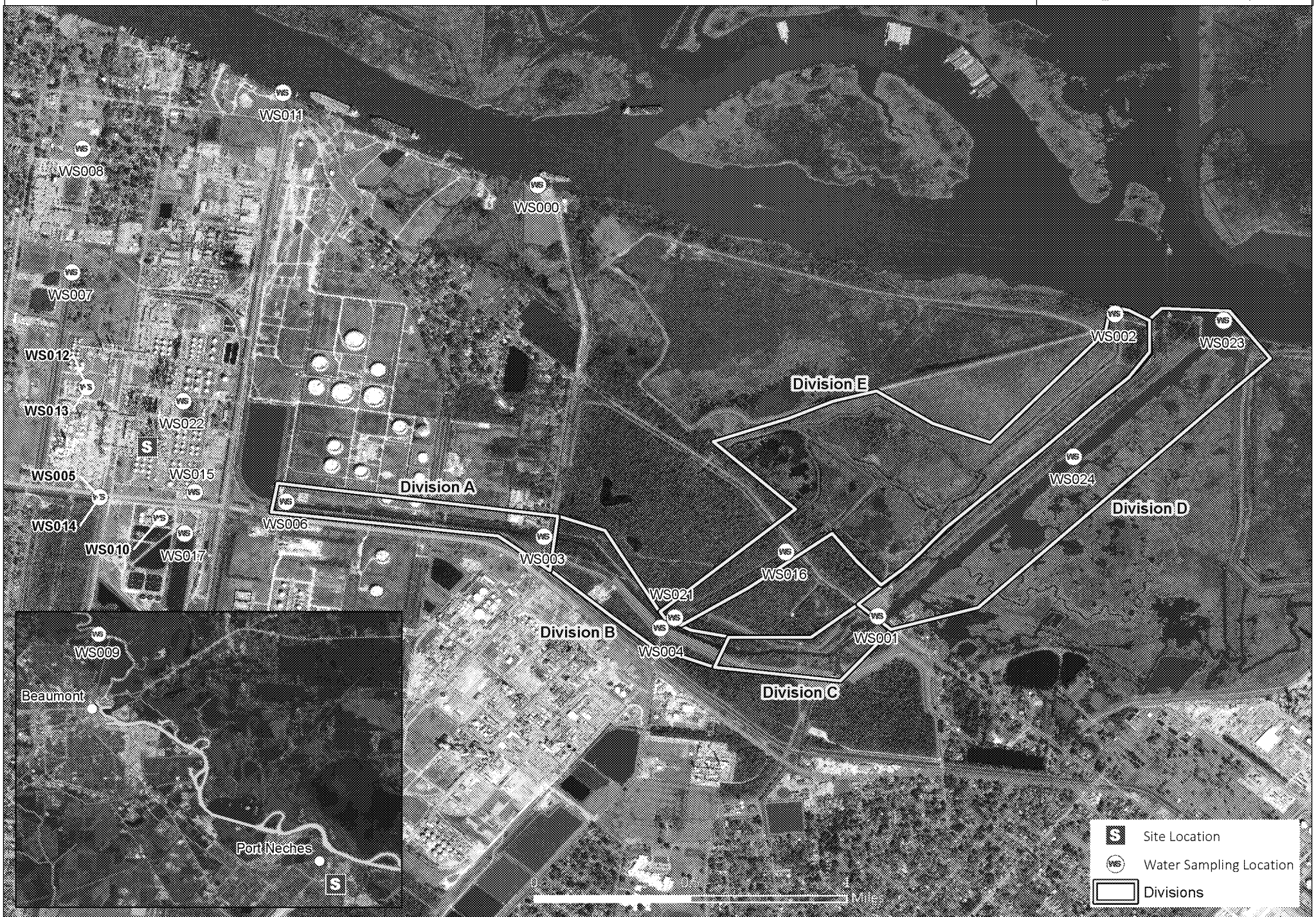
CTEH

Water Sampling Locations (All)

South 4 Group Fire | Port Neches, TX | 11/27/2019 09:33 - 12/12/2019 06:00 CST

Project: 112312
Client: TPC Group
City: Port Neches, TX
County: Jefferson



Projection System: Datum: GCS WGS 1984

Last Updated: 12/12/2019 11:24:40 AM

*GPS Coordinates are Approximate

Attachment B

Cumulative Detection Summary

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South 4 Group Fire

Cumulative Analytical Water Sampling Detection Summary | Data through Dec 11, 2019[1]

Analyte	SWRBEL[2]	CRWPCL[3]	Count of Samples	Count of Detections	Average of Detections	Detection Range
1-Methylnaphthalene	n/a †	4800 µg/L	148	83	0.677	0.041 - 8.87 µg/L
1,2,4-Trimethylbenzene	n/a †	3260 µg/L	149	29	0.426	0.208 J - 1.68 J µg/L
1,3-Butadiene	n/a †	n/a ‡	147	105	32.811	0.53 - 258 µg/L
2-Butanone	992000 µg/L	491000 µg/L	149	91	6.980	1.16 - 44.3 µg/L
2-Chloroethylvinyl ether	n/a †	16.2 µg/L	149	3	1.051	1 R - 5 R µg/L
2-Methylnaphthalene	n/a †	276 µg/L	148	85	0.488	0.04 - 8.5 µg/L
4-Methyl-2-pentanone	n/a †	52700 µg/L	149	26	4.862	0.592 - 16.1 µg/L
>C12-C28	n/a †	n/a ‡	151	63	6,947.825	124 - 83,600 µg/L
>C28-C35	n/a †	n/a ‡	151	3	4,654.667	124 - 8,820 µg/L
Acenaphthene	90 µg/L	2440 µg/L	148	86	0.531	0.013 - 6.38 µg/L
Acenaphthylene	n/a †	3260 µg/L	147	106	1.346	0.04 - 23 µg/L
Acetone	n/a †	780000 µg/L	149	113	13.053	1.2 - 114 µg/L
Anthracene	1317 µg/L	10700 µg/L	148	73	0.233	0.04 - 2.3 µg/L
Benzene	581 µg/L	235 µg/L	149	87	3.569	0.243 - 68.2 µg/L
Benzo(a)anthracene	0.025 µg/L	n/a ‡	148	49	0.134	0.025 J - 1.03 J µg/L
Benzo(a)pyrene	0.0025 µg/L	n/a ‡	148	55	0.142	0.013 - 1.04 µg/L
Benzo(b)fluoranthene	0.013 µg/L	n/a ‡	148	52	0.123	0.013 - 0.896 µg/L
Benzo(g,h,i)perylene	n/a †	n/a ‡	148	53	0.112	0.013 J - 0.575 J µg/L
Benzo(k)fluoranthene	0.13 µg/L	n/a ‡	148	29	0.086	0.025 - 0.385 µg/L
Bromodichloromethane	275 µg/L	477 µg/L	149	51	0.865	0.245 J - 3.13 J µg/L
C6-C12	n/a †	n/a ‡	151	11	2,462.273	106 - 15,100 µg/L
Carbon disulfide	n/a †	n/a ‡	149	3	0.958	0.697 J - 1.18 J µg/L
Chloroethane	n/a †	175000 µg/L	149	1	1.830	1.83 J - 1.83 J µg/L
Chloroform	7697 µg/L	2350 µg/L	149	103	9.010	0.377 - 29.8 µg/L
Chloromethane	n/a †	1950 µg/L	149	2	5.720	2.28 - 9.16 µg/L
Chrysene	2.52 µg/L	n/a ‡	148	57	0.133	0.025 - 0.999 µg/L
Dibenz(a,h)anthracene	0.0013 µg/L	n/a ‡	148	12	0.094	0.025 J - 0.209 J µg/L
Dibromochloromethane	183 µg/L	383 µg/L	149	2	0.338	0.2 J - 0.476 J µg/L
Ethylbenzene	1867 µg/L	12800 µg/L	149	66	28.795	0.211 - 572 µg/L
Ethylene Glycol	16800000 µg/L	1840000 µg/L	149	56	0.460	0.266 - 0.855 mg/L
Fluoranthene	20 µg/L	n/a ‡	148	95	0.439	0.013 - 5.49 µg/L
Fluorene	70 µg/L	2110 µg/L	148	82	0.515	0.04 - 4.45 µg/L
Indeno(1,2,3-cd)pyrene	0.013 µg/L	n/a ‡	148	47	0.099	0.013 - 0.466 µg/L
Isopropylbenzene (Cumene)	n/a †	8440 µg/L	149	5	1.064	0.538 J - 1.52 J µg/L
m,p-Xylene	n/a †	n/a ‡	149	77	1.404	0.209 - 24.1 µg/L
Methylene chloride	13333 µg/L	3370 µg/L	149	44	0.868	0.336 J - 2.65 J µg/L
n-Butylbenzene	n/a †	1200 µg/L	149	1	0.200	0.2 J - 0.2 J µg/L
Naphthalene	n/a †	2550 µg/L	145	121	2.015	0.026 - 63.8 µg/L
o-Xylene	n/a †	227000 µg/L	149	50	1.001	0.204 - 11.1 µg/L
Oil and Grease	n/a †	n/a ‡	149	38	3.584	1.5 - 14.9 mg/L
PFHxS	n/a †	n/a ‡	138	116	89.275	2.17 - 1,180 ng/L
PFOA	n/a †	n/a ‡	148	110	19.040	1.51 - 48 ng/L
PFOS	n/a †	n/a ‡	143	118	245.900	1.52 - 1,200 ng/L
Phenanthrene	n/a †	1070 µg/L	148	106	0.967	0.027 - 13.6 µg/L
Pyrene	30 µg/L	n/a ‡	148	96	0.497	0.025 - 6.83 µg/L
Styrene	n/a †	29800 µg/L	149	63	41.131	0.209 - 971 µg/L
tert-Butyl methyl ether (MTBE)	10482 µg/L	5470 µg/L	149	125	27.101	1.83 - 125 µg/L
Toluene	1000 µg/L	16500 µg/L	149	48	1.683	0.254 - 12.3 µg/L
Total Organic Carbon	n/a †	n/a ‡	149	124	36.340	2.01 - 130 mg/L
Total TPH (C6-C35)	n/a †	n/a ‡	151	66	7,143.403	106 - 88,100 µg/L
Trichloroethene	71.9 µg/L	1010 µg/L	149	4	0.840	0.705 J - 0.965 J µg/L
Trichlorofluoromethane	n/a †	43300 µg/L	149	1	1.280	1.28 J - 1.28 J µg/L
Xylene (total)	n/a †	24000 µg/L	149	66	2.392	0.409 - 35.2 µg/L

[1] The data presented is preliminary, and has not undergone the full QA/QC process.
[2] Surface Water Risk Based Exposure Limit
[3] Tier 1 Contact Recreation Water PCL

† No Surface Water RBEL available
‡ No Contact Recreation PCL available

Attachment C

Daily Surface Water Sampling Results

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South 4 Group Fire

Surface Water Screening Values - December 8, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS001		WS002		WS003		WS004	
				PNTX1208X001A	PNTX1208X001B	PNTX1208X002A	PNTX1208X002B	PNTX1208X003A	PNTX1208X003B	PNTX1208X004A	PNTX1208X004B
				Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified
1-Methylnaphthalene	< 0.042 - < 0.045 µg/L	n/a †	4800 µg/L	< 0.04 µg/L	< 0.041 µg/L	< 0.04 µg/L	0.048 µg/L (J)	< 0.04 µg/L	1.04 µg/L	0.87 µg/L	0.906 µg/L
1,1-Dichloroethane	< 0.2 - < 0.9 µg/L	n/a †	45800 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1-Dichloroethene	< 0.2 - < 1 µg/L	55114 µg/L	16600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1-Dichloropropene	< 0.2 - < 0.8 µg/L	n/a †	62.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,1-Trichloroethane	< 0.2 - < 0.8 µg/L	784354 µg/L	47200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,1,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	n/a †	312 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,2-Trichloroethane	< 0.2 - < 1 µg/L	166 µg/L	325 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,2,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	26.35 µg/L	93.8 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dibromo-3-chloropropane	< 0.2 - < 1 µg/L	n/a †	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dibromoethane	< 0.2 - < 1 µg/L	4.24 µg/L	0.283 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dichlorobenzene	< 0.2 - < 1 µg/L	3299 µg/L	11300 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
1,2-Dichloroethane	< 0.2 - < 1 µg/L	364 µg/L	196 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dichloroethene(Total)	< 0.4 - < 0.4 µg/L	n/a †	n/a ‡	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L
1,2-Dichloropropane	< 0.2 - < 0.9 µg/L	259 µg/L	186 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2,3-Trichloropropane	< 0.2 - < 0.9 µg/L	n/a †	1.71 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2,4-Trichlorobenzene	< 0.2 - < 1 µg/L	0.076 µg/L	650 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
1,2,4-Trimethylbenzene	< 0.2 - < 0.8 µg/L	n/a †	3260 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.255 µg/L (J)	< 0.2 µg/L	0.371 µg/L (J)
1,2Diphenylhydrazine/Azobenzen	< 0.51 - < 0.556 µg/L	2 µg/L	9.57 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
1,3-Butadiene	< 0.5 - < 0.8 µg/L	n/a †	n/a ‡	< 0.5 µg/L	1.12 µg/L (J)	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	0.604 µg/L (J)	< 0.5 µg/L	0.792 µg/L (J)
1,3-Dichlorobenzene	< 0.2 - < 1 µg/L	595 µg/L	3780 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
1,3-Dichloropropane	< 0.2 - < 1 µg/L	n/a †	129 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,3,5-Trimethylbenzene	< 0.2 - < 0.6 µg/L	n/a †	3050 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,4-Dichlorobenzene	< 0.2 - < 1 µg/L	900 µg/L	196 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
2-Butanone	< 0.2 - < 0.2 µg/L	992000 µg/L	491000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	4.43 µg/L (J)	5.65 µg/L	2.95 µg/L (J)	4.68 µg/L (J)
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)
2-Chloronaphthalene	< 0.51 - < 1 µg/L	1000 µg/L	5480 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
2-Chlorophenol	< 0.51 - < 1 µg/L	800 µg/L	1930 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
2-Chlorotoluene	< 0.2 - < 0.6 µg/L	n/a †	2420 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
2-Hexanone	< 0.5 - < 0.5 µg/L	n/a †	33400 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
2-Methylnaphthalene	< 0.042 - < 1 µg/L	n/a †	276 µg/L	< 0.04 µg/L	< 0.041 µg/L	< 0.04 µg/L	0.092 µg/L (J)	< 0.04 µg/L	0.497 µg/L	< 0.041 µg/L	0.488 µg/L
2-Nitroaniline	< 0.51 - < 0.7 µg/L	n/a †	136 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
2-Nitrophenol	< 0.51 - < 0.9 µg/L	n/a †	686 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
2,2-Dichloropropane	< 0.2 - < 0.7 µg/L	n/a †	163 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
2,4-Dichlorophenol	< 0.51 - < 0.7 µg/L	60 µg/L	739 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
2,4-Dimethylphenol	< 0.51 - < 1 µg/L	3436 µg/L	4740 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
2,4-Dinitrophenol	< 0.8 - < 1.67 µg/L	300 µg/L	1270 µg/L	< 1.52 µg/L	< 1.5 µg/L	< 1.52 µg/L	< 1.53 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L
2,4-Dinitrotoluene	< 0.51 - < 0.8 µg/L	17 µg/L	30 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
2,4,5-Trichlorophenol	< 0.51 - < 0.6 µg/L	1867 µg/L	14000 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
2,4,6-Trichlorophenol	< 0.51 - < 0.6 µg/L	28 µg/L	455 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
2,6-Dinitrotoluene	< 0.51 - < 0.6 µg/L	n/a †	30 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
3-Nitroaniline	< 0.51 - < 0.8 µg/L	n/a †	177 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
3,3'-Dichlorobenzidine	< 0.51 - < 0.6 µg/L	2.24 µg/L	20.7 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
4-Bromophenyl phenyl ether	< 0.51 - < 0.8 µg/L	n/a †	n/a ‡	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
4-Chloro-3-methylphenol	< 0.5 - < 0.556 µg/L	2000 µg/L	870 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
4-Chloroaniline	< 0.5 - < 0.556 µg/L	n/a †	2140 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
4-Chlorophenyl phenyl ether	< 0.51 - < 1 µg/L	n/a †	n/a ‡	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
4-Chlorotoluene	< 0.2 - < 0.5 µg/L	n/a †	2120 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
4-Isopropyltoluene	< 0.2 - < 0.6 µg/L	n/a †	3700 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
4-Methyl-2-pentanone	< 0.2 - < 0.2 µg/L	n/a †	52700 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	3.18 µg/L (J)
4-Nitroaniline	< 0.8 - < 1.67 µg/L	n/a †	966 µg/L	< 1.52 µg/L	< 1.5 µg/L	< 1.52 µg/L	< 1.53 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L
4-Nitrophenol	< 0.6 - < 1.67 µg/L	n/a †	1120 µg/L	< 1.52 µg/L	< 1.5 µg/L	< 1.52 µg/L	< 1.53 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L
4,6-Dinitro-2-methylphenol	< 0.6 - < 1.67 µg/L	30 µg/L	1100 µg/L	< 1.52 µg/L	< 1.5 µg/L	< 1.52 µg/L	< 1.53 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 8, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS006		WS014		WS015		WS017	WS021
				PNTX1208X006A	PNTX1208X006B	PNTX1208X014	PNTX1208X015B	PNTX1208X015A	PNTX1208X015B	PNTX1208X017	PNTX1208X021
				Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified
1-Methylnaphthalene	< 0.042 - < 0.045 µg/L	n/a †	4800 µg/L	1.52 µg/L	2.33 µg/L	< 0.041 µg/L	0.243 µg/L (J)	0.181 µg/L (J)	0.592 µg/L (J)	1.08 µg/L	0.668 µg/L (J)
1,1-Dichloroethane	< 0.2 - < 0.9 µg/L	n/a †	45800 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1-Dichloroethene	< 0.2 - < 1 µg/L	551.14 µg/L	16600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1-Dichloropropene	< 0.2 - < 0.8 µg/L	n/a †	62.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,1-Trichloroethane	< 0.2 - < 0.8 µg/L	784354 µg/L	47200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,1,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	n/a †	312 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,2-Trichloroethane	< 0.2 - < 1 µg/L	166 µg/L	325 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,2,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	26.35 µg/L	93.8 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dibromo-3-chloropropane	< 0.2 - < 1 µg/L	n/a †	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dibromoethane	< 0.2 - < 1 µg/L	4.24 µg/L	0.283 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dichlorobenzene	< 0.2 - < 1 µg/L	3299 µg/L	11300 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
1,2-Dichloroethane	< 0.2 - < 1 µg/L	364 µg/L	136 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dichloroethene(Total)	< 0.4 - < 0.4 µg/L	n/a †	n/a ‡	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L
1,2-Dichloropropane	< 0.2 - < 0.9 µg/L	259 µg/L	186 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2,3-Trichloropropane	< 0.2 - < 0.9 µg/L	n/a †	1.71 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2,4-Trichlorobenzene	< 0.2 - < 1 µg/L	0.076 µg/L	850 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
1,2,4-Trimethylbenzene	< 0.2 - < 0.8 µg/L	n/a †	8250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2Diphenylhydrazine/Azobenzen	< 0.51 - < 0.556 µg/L	2 µg/L	0.57 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
1,3-Butadiene	< 0.5 - < 0.9 µg/L	n/a †	n/a ‡	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	41.6 µg/L	8 µg/L	40.7 µg/L	< 0.5 µg/L	< 0.5 µg/L
1,3-Dichlorobenzene	< 0.2 - < 1 µg/L	595 µg/L	9760 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
1,3-Dichloropropane	< 0.2 - < 1 µg/L	n/a †	329 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,3,5-Trimethylbenzene	< 0.2 - < 0.6 µg/L	n/a †	3050 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,4-Dichlorobenzene	< 0.2 - < 1 µg/L	900 µg/L	196 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
2-Butanone	< 0.2 - < 0.2 µg/L	332000 µg/L	491000 µg/L	7.54 µg/L	7.01 µg/L	< 0.2 µg/L	11.6 µg/L	1.9 µg/L	1.9 µg/L	7.22 µg/L	5.1 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)
2-Chloronaphthalene	< 0.51 - < 1 µg/L	1000 µg/L	5430 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
2-Chlorophenol	< 0.51 - < 1 µg/L	800 µg/L	1930 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
2-Chlorotoluene	< 0.2 - < 0.6 µg/L	n/a †	2420 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
2-Hexanone	< 0.5 - < 0.5 µg/L	n/a †	33400 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
2-Methylnaphthalene	< 0.042 - < 1 µg/L	n/a †	270 µg/L	< 0.04 µg/L	1.2 µg/L	< 0.041 µg/L	0.217 µg/L (J)	0.175 µg/L (J)	0.68 µg/L (J)	< 0.041 µg/L	0.348 µg/L (J)
2-Nitroaniline	< 0.51 - < 0.7 µg/L	n/a †	196 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
2-Nitrophenol	< 0.51 - < 0.9 µg/L	n/a †	886 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
2,2-Dichloropropane	< 0.2 - < 0.7 µg/L	n/a †	163 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
2,4-Dichlorophenol	< 0.51 - < 0.7 µg/L	60 µg/L	730 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
2,4-Dimethylphenol	< 0.51 - < 1 µg/L	3436 µg/L	4740 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
2,4-Dinitrophenol	< 0.8 - < 1.67 µg/L	300 µg/L	1270 µg/L	< 1.56 µg/L	< 1.5 µg/L	< 1.52 µg/L	< 1.56 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L	< 1.52 µg/L
2,4-Dinitrotoluene	< 0.51 - < 0.8 µg/L	17 µg/L	30 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
2,4,5-Trichlorophenol	< 0.51 - < 0.6 µg/L	1867 µg/L	14000 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
2,4,6-Trichlorophenol	< 0.51 - < 0.6 µg/L	28 µg/L	455 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
2,6-Dinitrotoluene	< 0.51 - < 0.6 µg/L	n/a †	30 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
3-Nitroaniline	< 0.51 - < 0.9 µg/L	n/a †	177 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
3,3'-Dichlorobenzidine	< 0.51 - < 0.6 µg/L	2.24 µg/L	20.7 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
4-Bromophenyl phenyl ether	< 0.51 - < 0.8 µg/L	n/a †	n/a ‡	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
4-Chloro-3-methylphenol	< 0.5 - < 0.556 µg/L	2000 µg/L	870 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
4-Chloroaniline	< 0.5 - < 0.556 µg/L	n/a †	2140 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
4-Chlorophenyl phenyl ether	< 0.51 - < 1 µg/L	n/a †	n/a ‡	< 0.521 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.505 µg/L
4-Chlorotoluene	< 0.2 - < 0.5 µg/L	n/a †	2120 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
4-isopropyltoluene	< 0.2 - < 0.6 µg/L	n/a †	3700 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
4-Methyl-2-pentanone	< 0.2 - < 0.2 µg/L	n/a †	52700 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	2.62 µg/L (J)	3.5 µg/L (J)	3.19 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
4-Nitroaniline	< 0.8 - < 1.67 µg/L	n/a †	966 µg/L	< 1.56 µg/L	< 1.5 µg/L	< 1.52 µg/L	< 1.56 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L	< 1.52 µg/L
4-Nitrophenol	< 0.8 - < 1.67 µg/L	n/a †	1120 µg/L	< 1.56 µg/L	< 1.5 µg/L	< 1.52 µg/L	< 1.56 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L	< 1.52 µg/L
4,6-Dinitro-2-methylphenol	< 0.8 - < 1.67 µg/L	30 µg/L	1100 µg/L	< 1.56 µg/L	< 1.5 µg/L	< 1.52 µg/L	< 1.56 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L	< 1.52 µg/L

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 8, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS022 PNTX12089022 Level 2 Verified
1-Methylnaphthalene	< 0.042 - < 0.045 µg/L	n/a †	4800 µg/L	0.097 µg/L (J)
1,1-Dichloroethane	< 0.2 - < 0.9 µg/L	n/a †	45600 µg/L	< 0.2 µg/L
1,1-Dichloroethene	< 0.2 - < 1 µg/L	551.14 µg/L	16600 µg/L	< 0.2 µg/L
1,1-Dichloropropene	< 0.2 - < 0.8 µg/L	n/a †	62.2 µg/L	< 0.2 µg/L
1,1,1-Trichloroethane	< 0.2 - < 0.8 µg/L	784354 µg/L	47200 µg/L	< 0.2 µg/L
1,1,1,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	n/a †	31.2 µg/L	< 0.2 µg/L
1,1,2-Trichloroethane	< 0.2 - < 1 µg/L	166 µg/L	325 µg/L	< 0.2 µg/L
1,1,2,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	26.35 µg/L	93.6 µg/L	< 0.2 µg/L
1,2-Dibromo-3-chloropropane	< 0.2 - < 1 µg/L	n/a †	11.3 µg/L	< 0.2 µg/L
1,2-Dibromoethane	< 0.2 - < 1 µg/L	4.24 µg/L	0.283 µg/L	< 0.1 µg/L
1,2-Dichlorobenzene	< 0.2 - < 1 µg/L	3299 µg/L	11300 µg/L	< 0.5 µg/L
1,2-Dichloroethane	< 0.2 - < 1 µg/L	364 µg/L	136 µg/L	< 0.2 µg/L
1,2-Dichloroethene(Total)	< 0.4 - < 0.4 µg/L	n/a †	n/a ‡	< 0.4 µg/L
1,2-Dichloropropane	< 0.2 - < 0.9 µg/L	259 µg/L	186 µg/L	< 0.1 µg/L
1,2,3-Trichloropropane	< 0.2 - < 0.9 µg/L	n/a †	1.71 µg/L	< 0.2 µg/L
1,2,4-Trichlorobenzene	< 0.2 - < 1 µg/L	0.076 µg/L	650 µg/L	< 0.5 µg/L
1,2,4-Trimethylbenzene	< 0.2 - < 0.8 µg/L	n/a †	3250 µg/L	< 0.2 µg/L
1,2Diphenylhydrazine/Azobenzen	< 0.51 - < 0.556 µg/L	2 µg/L	9.57 µg/L	< 0.1 µg/L
1,3-Butadiene	< 0.5 - < 0.9 µg/L	n/a †	n/a ‡	39.7 µg/L
1,3-Dichlorobenzene	< 0.2 - < 1 µg/L	595 µg/L	9760 µg/L	< 0.5 µg/L
1,3-Dichloropropane	< 0.2 - < 1 µg/L	n/a †	129 µg/L	< 0.1 µg/L
1,3,5-Trimethylbenzene	< 0.2 - < 0.6 µg/L	n/a †	3050 µg/L	< 0.2 µg/L
1,4-Dichlorobenzene	< 0.2 - < 1 µg/L	900 µg/L	196 µg/L	< 0.5 µg/L
2-Butanone	< 0.2 - < 0.2 µg/L	332000 µg/L	491000 µg/L	26.4 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (R)
2-Chloronaphthalene	< 0.51 - < 1 µg/L	1000 µg/L	5430 µg/L	< 0.5 µg/L
2-Chlorophenol	< 0.51 - < 1 µg/L	800 µg/L	1990 µg/L	< 0.5 µg/L
2-Chlorotoluene	< 0.2 - < 0.6 µg/L	n/a †	2420 µg/L	< 0.2 µg/L
2-Hexanone	< 0.5 - < 0.5 µg/L	n/a †	33400 µg/L	< 0.1 µg/L
2-Methylnaphthalene	< 0.042 - < 1 µg/L	n/a †	276 µg/L	0.117 µg/L (J)
2-Nitroaniline	< 0.51 - < 0.7 µg/L	n/a †	196 µg/L	< 0.5 µg/L
2-Nitrophenol	< 0.51 - < 0.9 µg/L	n/a †	886 µg/L	< 0.1 µg/L
2,2-Dichloropropane	< 0.2 - < 0.7 µg/L	n/a †	163 µg/L	< 0.2 µg/L
2,4-Dichlorophenol	< 0.51 - < 0.7 µg/L	60 µg/L	730 µg/L	< 0.5 µg/L
2,4-Dimethylphenol	< 0.51 - < 1 µg/L	8436 µg/L	4740 µg/L	< 0.5 µg/L
2,4-Dinitrophenol	< 0.8 - < 1.67 µg/L	300 µg/L	1270 µg/L	< 1.5 µg/L
2,4-Dinitrotoluene	< 0.51 - < 0.8 µg/L	17 µg/L	30 µg/L	< 0.5 µg/L
2,4,5-Trichlorophenol	< 0.51 - < 0.6 µg/L	1867 µg/L	14000 µg/L	< 0.5 µg/L
2,4,6-Trichlorophenol	< 0.51 - < 0.6 µg/L	28 µg/L	455 µg/L	< 0.5 µg/L
2,6-Dinitrotoluene	< 0.51 - < 0.6 µg/L	n/a †	30 µg/L	< 0.1 µg/L
3-Nitroaniline	< 0.51 - < 0.9 µg/L	n/a †	177 µg/L	< 0.5 µg/L
3,3'-Dichlorobenzidine	< 0.51 - < 0.6 µg/L	2.24 µg/L	20.7 µg/L	< 0.5 µg/L
4-Bromophenyl phenyl ether	< 0.51 - < 0.8 µg/L	n/a †	n/a ‡	< 0.1 µg/L
4-Chloro-3-methylphenol	< 0.5 - < 0.556 µg/L	2000 µg/L	870 µg/L	< 0.1 µg/L
4-Chloroaniline	< 0.5 - < 0.556 µg/L	n/a †	2140 µg/L	< 0.5 µg/L
4-Chlorophenyl phenyl ether	< 0.51 - < 1 µg/L	n/a †	n/a ‡	< 0.5 µg/L
4-Chlorotoluene	< 0.2 - < 0.5 µg/L	n/a †	2120 µg/L	< 0.1 µg/L
4-isopropyltoluene	< 0.2 - < 0.6 µg/L	n/a †	3700 µg/L	< 0.2 µg/L
4-Methyl-2-pentanone	< 0.2 - < 0.2 µg/L	n/a †	52700 µg/L	9.95 µg/L
4-Nitroaniline	< 0.8 - < 1.67 µg/L	n/a †	966 µg/L	< 2.55 µg/L
4-Nitrophenol	< 0.8 - < 1.67 µg/L	n/a †	1120 µg/L	< 1.55 µg/L
4,6-Dinitro-2-methylphenol	< 0.8 - < 1.67 µg/L	30 µg/L	1100 µg/L	< 1.62 µg/L

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

South 4 Group Fire

Surface Water Screening Values - December 8, 2019[1]

				WS001		WS002		WS003		WS004	
				PNTX1208X001A	PNTX1208X001B	PNTX1208X002A	PNTX1208X002B	PNTX1208X003A	PNTX1208X003B	PNTX1208X004A	PNTX1208X004B
Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified
>C12-C28	< 124 - < 126 µg/L	n/a †	n/a ‡	< 122 µg/L	< 124 µg/L	< 124 µg/L	< 124 µg/L	< 124 µg/L	232 µg/L (J)	< 126 µg/L	1,710 µg/L (J)
>C28-C35	< 124 - < 126 µg/L	n/a †	n/a ‡	< 122 µg/L	< 124 µg/L	< 124 µg/L	< 124 µg/L	< 124 µg/L	< 122 µg/L	< 126 µg/L	< 122 µg/L
Acenaphthene	< 0.012 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.012 µg/L	0.075 µg/L	< 0.012 µg/L	0.037 µg/L	< 0.012 µg/L	[illegible] µg/L	< 0.012 µg/L	1.46 µg/L
Acenaphthylene	< 0.042 - < 1 µg/L	n/a †	3260 µg/L	< 0.04 µg/L	0.069 µg/L (J)	< 0.04 µg/L	0.159 µg/L	1.65 µg/L	1.06 µg/L	1.35 µg/L	1.68 µg/L
Acetone	< 1.11 - 1.84 µg/L	n/a †	780000 µg/L	2.57 µg/L (J)	< 2.78 µg/L	3.91 µg/L (J)	< 3.71 µg/L	17.7 µg/L	< 1.8 µg/L	15.5 µg/L	< 18.5 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	426 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - < 0.833 µg/L	n/a †	4690 µg/L	< 0.733 µg/L	< 0.75 µg/L	< 0.733 µg/L	< 0.733 µg/L	< 0.75 µg/L	< 0.75 µg/L	< 0.75 µg/L	< 0.733 µg/L
Anthracene	< 0.042 - < 0.5 µg/L	1317 µg/L	10700 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.04 µg/L	< 0.041 µg/L	< 0.04 µg/L	0.09 µg/L	< 0.041 µg/L	0.08 µg/L (J)
Benzene	< 0.2 - < 0.7 µg/L	561 µg/L	235 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.503 µg/L (J)	< 0.2 µg/L	0.343 µg/L (J)
Benzidine	< 1 - < 2.78 µg/L	0.107 µg/L	0.156 µg/L	< 2.52 µg/L	< 2.5 µg/L	< 2.53 µg/L	< 2.55 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.55 µg/L
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a ‡	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	0.041 µg/L (J)	< 0.026 µg/L	< 0.026 µg/L
Benzo(a)pyrene	< 0.014 - 0.073 µg/L	0.0025 µg/L	n/a ‡	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	0.035 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L
Benzo(b)fluoranthene	< 0.014 - 0.119 µg/L	0.012 µg/L	n/a ‡	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	0.039 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L
Benzo(g,h,i)perylene	< 0.014 - 0.062 µg/L	n/a †	n/a ‡	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	0.04 µg/L (J)	0.022 µg/L (J)	< 0.013 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a ‡	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	0.031 µg/L (J)	< 0.026 µg/L	< 0.026 µg/L
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 1.52 µg/L	< 1.5 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.52 µg/L
Benzyl alcohol	< 0.51 - < 0.9 µg/L	n/a †	210000 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Bis(2-Chloroethoxy)methane	< 0.51 - < 0.6 µg/L	n/a †	12.3 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Bis(2-Chloroethyl)ether	< 0.51 - < 0.9 µg/L	42.63 µg/L	25.6 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Bis(2-Chloroisopropyl)ether	< 0.51 - < 1 µg/L	4000 µg/L	181 µg/L	0.586 µg/L (J)	0.543 µg/L (J)	< 0.505 µg/L	< 0.51 µg/L	1.65 µg/L (J)	< 0.5 µg/L	1.4 µg/L (J)	< 0.51 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.255 - < 1 µg/L	7.55 µg/L	n/a ‡	< 0.252 µg/L	< 0.25 µg/L	< 0.252 µg/L	< 0.255 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.255 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	26800 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.927 µg/L (J)	1.11 µg/L (J)	0.903 µg/L (J)	0.928 µg/L (J)
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.255 - < 0.8 µg/L	1 µg/L	7880 µg/L	< 0.252 µg/L	< 0.25 µg/L	< 0.252 µg/L	< 0.255 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.255 µg/L
C6-C12	< 107 - < 108 µg/L	n/a †	n/a ‡	< 105 µg/L	< 105 µg/L	< 105 µg/L	< 105 µg/L	< 105 µg/L	< 105 µg/L	< 105 µg/L	< 105 µg/L
Carbazole	< 0.51 - < 0.556 µg/L	n/a †	n/a ‡	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a ‡	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2757 µg/L	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7697 µg/L	2550 µg/L	1.89 µg/L (J)	1.44 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	14.5 µg/L	8.1 µg/L	15.5 µg/L	15.7 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chrysene	< 0.028 - 0.091 µg/L	2.52 µg/L	n/a ‡	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	0.056 µg/L (J)	< 0.025 µg/L	< 0.026 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4180 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.51 - < 0.556 µg/L	92.4 µg/L	4490 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Di-n-octyl phthalate	< 0.255 - < 0.7 µg/L	n/a †	n/a ‡	< 0.252 µg/L	< 0.25 µg/L	< 0.252 µg/L	< 0.255 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.255 µg/L
Dibenz(a,h)anthracene	< 0.026 - < 0.6 µg/L	0.0015 µg/L	n/a ‡	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L
Dibenzofuran	< 0.51 - < 1 µg/L	n/a †	219 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	153 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.8 µg/L	n/a †	37600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.51 - < 0.6 µg/L	600 µg/L	307000 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Dimethyl phthalate	< 0.51 - < 0.9 µg/L	2000 µg/L	540000 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.219 µg/L (J)	0.217 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Ethylene Glycol	< 265 - 315 µg/L	16300000 µg/L	1840000 µg/L	< 0.265 mg/L	0.332 mg/L (J)	< 0.265 mg/L	0.287 mg/L (J)	< 0.255 mg/L	< 0.255 mg/L	< 0.255 mg/L	< 0.265 mg/L
Fluoranthene	< 0.014 - 0.102 µg/L	20 µg/L	n/a ‡	0.074 µg/L (J)	0.068 µg/L (J)	0.044 µg/L (J)	< 0.013 µg/L	0.1 µg/L (J)	0.09 µg/L	0.09 µg/L (J)	0.124 µg/L
Fluorene	< 0.042 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.04 µg/L	0.121 µg/L	< 0.04 µg/L	0.054 µg/L (J)	< 0.04 µg/L	0.085 µg/L	< 0.041 µg/L (J)	0.441 µg/L

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 8, 2019[1]

				WS006		WS014		WS015		WS017	WS021
				PNTX1208X006A	PNTX1208X006B	PNTX1208X014	PNTX1208V015B	PNTX1208X015A	PNTX1208X015B	PNTX1208X017	PNTX1208X021
Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified
>C12-C28	<124 - <126 µg/L	n/a †	n/a ‡	<122 µg/L	1,290 µg/L (J)	<122 µg/L	<121 µg/L	<124 µg/L	<125 µg/L	<128 µg/L	<128 µg/L
>C28-C35	<124 - <126 µg/L	n/a †	n/a ‡	<122 µg/L	<122 µg/L	<122 µg/L	<122 µg/L	<124 µg/L	<125 µg/L	<125 µg/L	<123 µg/L
Acenaphthene	<0.013 - <1 µg/L	90 µg/L	2440 µg/L	<0.012 µg/L	2.54 µg/L	<0.013 µg/L	0.06 µg/L (J)	<0.013 µg/L	0.08 µg/L (J)	<0.013 µg/L	<0.013 µg/L
Acenaphthylene	<0.042 - <1 µg/L	n/a †	3260 µg/L	2.5 µg/L	4.08 µg/L	<0.041 µg/L	0.211 µg/L	0.551 µg/L (J)	0.794 µg/L	1.31 µg/L	1.16 µg/L (J)
Acetone	<1.11 - 1.84 µg/L	n/a †	780000 µg/L	37.1 µg/L	30.3 µg/L	2.46 µg/L (J)	<11.2 µg/L	12.6 µg/L	<11.7 µg/L	17.6 µg/L	22 µg/L
Acrolein	<2.5 - <2.5 µg/L	400 µg/L	426 µg/L	<2.5 µg/L	<2.5 µg/L	<2.5 µg/L	<2.5 µg/L	<2.5 µg/L	<2.5 µg/L	<2.5 µg/L	<2.5 µg/L
Acrylonitrile	<1 - <1 µg/L	115 µg/L	75.7 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
Aniline	<0.6 - <0.833 µg/L	n/a †	4630 µg/L	<0.781 µg/L	<0.75 µg/L	<0.758 µg/L	<0.781 µg/L	<0.765 µg/L	<0.75 µg/L	<0.765 µg/L	<0.758 µg/L
Anthracene	<0.042 - <0.5 µg/L	1317 µg/L	10700 µg/L	<0.04 µg/L	0.317 µg/L	<0.041 µg/L	0.16 µg/L	0.154 µg/L (J)	0.11 µg/L	<0.041 µg/L	<0.04 µg/L
Benzene	<0.2 - <0.7 µg/L	581 µg/L	235 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	2.6 µg/L (J)	2.96 µg/L (J)	2.79 µg/L (J)	<0.2 µg/L	<0.2 µg/L
Benzidine	<1 - <2.78 µg/L	0.107 µg/L	0.156 µg/L	<2.6 µg/L	<2.5 µg/L	<2.53 µg/L	<2.6 µg/L	<2.55 µg/L	<2.5 µg/L	<2.55 µg/L	<2.53 µg/L
Benzo(a)anthracene	<0.028 - 0.077 µg/L	0.025 µg/L	n/a ‡	<0.025 µg/L	<0.025 µg/L	<0.026 µg/L	0.085 µg/L (J)	0.091 µg/L (J)	0.047 µg/L (J)	<0.026 µg/L	<0.025 µg/L
Benzo(a)pyrene	<0.014 - 0.079 µg/L	0.0025 µg/L	n/a ‡	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L	0.057 µg/L (J)	0.074 µg/L (J)	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L
Benzo(b)fluoranthene	<0.014 - 0.118 µg/L	0.013 µg/L	n/a ‡	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L	0.059 µg/L (J)	0.075 µg/L (J)	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L
Benzo(g,h,i)perylene	<0.014 - 0.062 µg/L	n/a †	n/a ‡	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L	0.041 µg/L (J)	0.053 µg/L (J)	<0.013 µg/L	<0.013 µg/L	<0.013 µg/L
Benzo(k)fluoranthene	<0.028 - 0.051 µg/L	0.13 µg/L	n/a ‡	<0.025 µg/L	<0.025 µg/L	<0.026 µg/L	<0.026 µg/L	<0.026 µg/L	<0.025 µg/L	<0.026 µg/L	<0.025 µg/L
Benzoic acid	<0.5 - <1.67 µg/L	n/a †	1880000 µg/L	<1.56 µg/L	<1.5 µg/L	<1.52 µg/L	<1.56 µg/L	<1.53 µg/L	<1.5 µg/L	<1.53 µg/L	<1.52 µg/L
Benzyl alcohol	<0.51 - <0.9 µg/L	n/a †	210000 µg/L	<0.521 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.505 µg/L
Bis(2-Chloroethoxy)methane	<0.51 - <0.6 µg/L	n/a †	12.3 µg/L	<0.521 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.505 µg/L
Bis(2-Chloroethyl)ether	<0.51 - <0.9 µg/L	42.83 µg/L	25.8 µg/L	<0.521 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.505 µg/L
Bis(2-Chloroisopropyl)ether	<0.51 - <1 µg/L	4000 µg/L	181 µg/L	1.81 µg/L (J)	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.51 µg/L	<0.5 µg/L	1.82 µg/L (J)	1.8 µg/L (J)
Bis(2-Ethylhexyl)phthalate	<0.255 - <1 µg/L	7.55 µg/L	n/a ‡	<0.26 µg/L	<0.25 µg/L	<0.253 µg/L	<0.26 µg/L	0.448 µg/L (J)	<0.25 µg/L	<0.255 µg/L	<0.253 µg/L
Bromobenzene	<0.2 - <0.2 µg/L	n/a †	4200 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Bromochloromethane	<0.2 - <11 µg/L	n/a †	26800 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Bromodichloromethane	<0.2 - <1 µg/L	275 µg/L	477 µg/L	1.06 µg/L (J)	1.06 µg/L (J)	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	1.07 µg/L (J)	0.829 µg/L (J)
Bromoform	<0.25 - <0.25 µg/L	1060 µg/L	4300 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L
Bromomethane	<0.5 - <2 µg/L	10000 µg/L	902 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L	<0.5 µg/L
Butyl benzyl phthalate	<0.255 - <0.8 µg/L	1 µg/L	7880 µg/L	<0.26 µg/L	<0.25 µg/L	<0.253 µg/L	<0.26 µg/L	<0.255 µg/L	<0.25 µg/L	<0.255 µg/L	<0.253 µg/L
C6-C12	<107 - <108 µg/L	n/a †	n/a ‡	<105 µg/L	<105 µg/L	<105 µg/L	<106 µg/L	<107 µg/L	<109 µg/L	<107 µg/L	<106 µg/L
Carbazole	<0.51 - <0.556 µg/L	n/a †	n/a ‡	<0.521 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.505 µg/L
Carbon disulfide	<0.2 - <0.2 µg/L	n/a †	n/a ‡	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Carbon tetrachloride	<0.25 - <0.6 µg/L	46 µg/L	n/a ‡	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L
Chlorobenzene	<0.2 - <0.7 µg/L	2737 µg/L	1580 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Chloroethane	<0.25 - <0.7 µg/L	n/a †	175000 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L
Chloroform	<0.2 - <0.7 µg/L	7697 µg/L	2850 µg/L	16.9 µg/L	18.2 µg/L	<0.2 µg/L	2.88 µg/L (J)	3.46 µg/L (J)	3.15 µg/L (J)	20.4 µg/L	15.1 µg/L
Chloromethane	<0.2 - <0.7 µg/L	n/a †	1950 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Chrysene	<0.028 - 0.091 µg/L	2.52 µg/L	n/a ‡	<0.025 µg/L	<0.025 µg/L	<0.026 µg/L	0.086 µg/L (J)	0.09 µg/L (J)	0.046 µg/L (J)	0.053 µg/L (J)	<0.025 µg/L
cis-1,2-Dichloroethene	<0.2 - <0.7 µg/L	n/a †	4160 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
cis-1,3-Dichloropropene	<0.2 - <1 µg/L	n/a †	46.3 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Di-n-butyl phthalate	<0.51 - <0.556 µg/L	92.4 µg/L	4490 µg/L	<0.521 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.505 µg/L
Di-n-octyl phthalate	<0.255 - <0.7 µg/L	n/a †	n/a ‡	<0.26 µg/L	<0.25 µg/L	<0.253 µg/L	<0.26 µg/L	<0.255 µg/L	<0.25 µg/L	<0.255 µg/L	<0.253 µg/L
Dibenz(a,h)anthracene	<0.026 - <0.6 µg/L	0.0013 µg/L	n/a ‡	<0.025 µg/L	<0.025 µg/L	<0.026 µg/L	<0.026 µg/L	<0.026 µg/L	<0.025 µg/L	<0.026 µg/L	<0.025 µg/L
Dibenzofuran	<0.51 - <1 µg/L	n/a †	219 µg/L	<0.521 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.505 µg/L
Dibromochloromethane	<0.2 - <1 µg/L	183 µg/L	383 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Dibromomethane	<0.25 - <1 µg/L	n/a †	4300 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L	<0.25 µg/L
Dichlorodifluoromethane	<0.2 - <0.8 µg/L	n/a †	37600 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L
Diethyl phthalate	<0.51 - <0.6 µg/L	600 µg/L	307000 µg/L	<0.521 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.505 µg/L
Dimethyl phthalate	<0.51 - <0.9 µg/L	2000 µg/L	540000 µg/L	<0.521 µg/L	<0.5 µg/L	<0.505 µg/L	<0.521 µg/L	<0.51 µg/L	<0.5 µg/L	<0.51 µg/L	<0.505 µg/L
Ethylbenzene	<0.2 - <0.7 µg/L	1867 µg/L	12800 µg/L	<0.2 µg/L	<0.2 µg/L	<0.2 µg/L	5.19 µg/L	6.96 µg/L	6.07 µg/L	<0.2 µg/L	<0.2 µg/L
Ethylene Glycol	<265 - 315 µg/L	16800000 µg/L	1840000 µg/L	<0.268 mg/L	<0.268 mg/L	<0.266 mg/L	<0.268 mg/L	<0.255 mg/L	<0.255 mg/L	<0.255 mg/L	<0.255 mg/L
Fluoranthene	<0.014 - 0.102 µg/L	20 µg/L	n/a ‡	<0.013 µg/L	0.078 µg/L (J)	<0.013 µg/L	0.456 µg/L (J)	0.427 µg/L (J)	0.353 µg/L (J)	0.044 µg/L (J)	0.084 µg/L (J)
Fluorene	<0.042 - <1 µg/L	70 µg/L	2110 µg/L	1.77 µg/L	1.31 µg/L	<0.041 µg/L	0.211 µg/L	0.202 µg/L (J)	0.122 µg/L	<0.041 µg/L	<0.04 µg/L

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 8, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS022 PNTX12089X022 Level 2 Verified
>C12-C28	< 124 - < 126 µg/L	n/a †	n/a ‡	3[illegible] µg/L
>C28-C35	< 124 - < 126 µg/L	n/a †	n/a ‡	< 2[illegible] µg/L
Acenaphthene	< 0.012 - < 1 µg/L	90 µg/L	2440 µg/L	0.022 µg/L (J)
Acenaphthylene	< 0.042 - < 1 µg/L	n/a †	3260 µg/L	0.259 µg/L (J)
Acetone	< 1.11 - 1.84 µg/L	n/a †	780000 µg/L	22.1 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	426 µg/L	< 2.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L
Aniline	< 0.6 - < 0.932 µg/L	n/a †	4630 µg/L	< 0.765 µg/L
Anthracene	< 0.042 - < 0.5 µg/L	1317 µg/L	10700 µg/L	< 0.042 µg/L
Benzene	< 0.2 - < 0.7 µg/L	561 µg/L	235 µg/L	1.46 µg/L (J)
Benzidine	< 1 - < 2.78 µg/L	0.107 µg/L	0.156 µg/L	< 2.88 µg/L
Benzo(a)anthracene	< 0.028 - 0.077 µg/L	0.025 µg/L	n/a ‡	< 0.025 µg/L
Benzo(a)pyrene	< 0.014 - 0.073 µg/L	0.0025 µg/L	n/a ‡	< 0.0[illegible] µg/L
Benzo(b)fluoranthene	< 0.014 - 0.116 µg/L	0.012 µg/L	n/a ‡	< 0.0[illegible] µg/L
Benzo(g,h,i)perylene	< 0.014 - 0.062 µg/L	n/a †	n/a ‡	< 0.0[illegible] µg/L
Benzo(k)fluoranthene	< 0.028 - 0.051 µg/L	0.13 µg/L	n/a ‡	< 0.02[illegible] µg/L
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 1.95 µg/L
Benzyl alcohol	< 0.51 - < 0.9 µg/L	n/a †	210000 µg/L	< 0.[illegible] µg/L
Bis(2-Chloroethoxy)methane	< 0.51 - < 0.6 µg/L	n/a †	12.3 µg/L	< 0.6[illegible] µg/L
Bis(2-Chloroethyl)ether	< 0.51 - < 0.9 µg/L	42.83 µg/L	25.6 µg/L	< 0.5[illegible] µg/L
Bis(2-Chloroisopropyl)ether	< 0.51 - < 1 µg/L	4000 µg/L	181 µg/L	< 0.[illegible] µg/L
Bis(2-Ethylhexyl)phthalate	< 0.255 - < 1 µg/L	7.55 µg/L	n/a ‡	< 0.[illegible] µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	26800 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	0.778 µg/L (J)
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.255 - < 0.8 µg/L	1 µg/L	7880 µg/L	< 0.[illegible] µg/L
C6-C12	< 107 - < 108 µg/L	n/a †	n/a ‡	765 µg/L (J)
Carbazole	< 0.51 - < 0.556 µg/L	n/a †	n/a ‡	< 0.5[illegible] µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a ‡	0.697 µg/L (J)
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a ‡	< 0.[illegible] µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2757 µg/L	1580 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7697 µg/L	2550 µg/L	[illegible] µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1950 µg/L	< 0.[illegible] µg/L
Chrysene	< 0.028 - 0.091 µg/L	2.52 µg/L	n/a ‡	< 0.025 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4180 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.[illegible] µg/L
Di-n-butyl phthalate	< 0.51 - < 0.556 µg/L	92.4 µg/L	4490 µg/L	< 0.[illegible] µg/L
Di-n-octyl phthalate	< 0.255 - < 0.7 µg/L	n/a †	n/a ‡	< 0.255 µg/L
Dibenz(a,h)anthracene	< 0.028 - < 0.6 µg/L	0.0015 µg/L	n/a ‡	< 0.02[illegible] µg/L
Dibenzofuran	< 0.51 - < 1 µg/L	n/a †	219 µg/L	< 0.[illegible] µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	193 µg/L	383 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.8 µg/L	n/a †	37600 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.51 - < 0.6 µg/L	600 µg/L	307000 µg/L	< 0.[illegible] µg/L
Dimethyl phthalate	< 0.51 - < 0.9 µg/L	2000 µg/L	540000 µg/L	< 0.5[illegible] µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	[illegible] µg/L
Ethylene Glycol	< 265 - 315 µg/L	16300000 µg/L	1840000 µg/L	< 0.265 mg/L
Fluoranthene	< 0.014 - 0.102 µg/L	20 µg/L	n/a ‡	0.104 µg/L (J)
Fluorene	< 0.042 - < 1 µg/L	70 µg/L	2110 µg/L	0.086 µg/L (J)

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

South 4 Group Fire

Surface Water Screening Values - December 8, 2019[1]

				WS001		WS002		WS003		WS004	
				PNTX1208X001A	PNTX1208X001B	PNTX1208X002A	PNTX1208X002B	PNTX1208X003A	PNTX1208X003B	PNTX1208X004A	PNTX1208X004B
Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified
Hexachlorobenzene	< 0.51 - < 0.7 µg/L	0.00066 µg/L	n/a ‡	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Hexachlorobutadiene	< 0.3 - < 1 µg/L	0.22 µg/L	6.9 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Hexachlorocyclopentadiene	< 1 - < 1.67 µg/L	11.6 µg/L	256 µg/L	< 1.02 µg/L	< 1.5 µg/L	< 1.53 µg/L	< 1.55 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.55 µg/L
Hexachloroethane	< 0.51 - < 1 µg/L	2.55 µg/L	n/a ‡	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Indeno(1,2,3-cd)pyrene	< 0.014 - 0.068 µg/L	0.013 µg/L	n/a ‡	< 0.013 µg/L	< 0.013 µg/L	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	0.05 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L
Isophorone	< 0.5 - < 0.556 µg/L	18000 µg/L	10400 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Isopropylbenzene (Cumene)	< 0.2 - < 0.6 µg/L	n/a †	8440 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.255 - < 0.278 µg/L	n/a †	19600 µg/L	< 0.253 µg/L	< 0.25 µg/L	< 0.253 µg/L	< 0.255 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.255 µg/L
m,p-Xylene	< 0.2 - < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.422 µg/L (J)	0.616 µg/L (J)	< 0.2 µg/L	0.559 µg/L (J)
Methyl iodide	< 0.5 - < 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - < 1 µg/L	15333 µg/L	3370 µg/L	< 2.0 µg/L	< 0.97 µg/L	< 0.718 µg/L	< 0.125 µg/L	< 0.265 µg/L	< 0.265 µg/L	< 0.127 µg/L	< 0.955 µg/L
n-Butylbenzene	< 0.2 - < 0.7 µg/L	n/a †	1200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.51 - < 1 µg/L	5.1 µg/L	1.98 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
n-Nitrosodimethylamine	< 0.5 - < 0.556 µg/L	50 µg/L	0.962 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
n-Nitrosodiphenylamine	< 0.51 - < 0.8 µg/L	60 µg/L	421 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
n-Propylbenzene	< 0.6 - < 1 µg/L	n/a †	2550 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Naphthalene	< 0.012 - < 2 µg/L	n/a †	2550 µg/L	0.026 µg/L (J)	0.041 µg/L (J)	0.225 µg/L	0.202 µg/L	0.335 µg/L	0.497 µg/L	0.331 µg/L	0.571 µg/L
Nitrobenzene	< 0.51 - < 1 µg/L	1672 µg/L	248 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
o-Cresol	< 0.51 - < 0.8 µg/L	n/a †	19600 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
o-Xylene	< 0.2 - < 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - < 1600 µg/L	n/a †	n/a ‡	< 1.8 mg/L	1.7 mg/L (J)	< 1.8 mg/L	2.8 mg/L (J)	1.3 mg/L (J)	4 mg/L (J)	< 1.5 mg/L	2.3 mg/L (J)
Pentachlorophenol	< 0.51 - < 0.6 µg/L	0.29 µg/L	3.92 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
PFHxS	< 1.64 - < 1.64 ng/L	n/a †	n/a ‡	36.3 ng/L	29.1 ng/L	129 ng/L	72.3 ng/L	160 ng/L	70.2 ng/L	97.5 ng/L	81.8 ng/L
PFOA	< 1.8 - < 1.8 ng/L	n/a †	n/a ‡	11.4 ng/L	6.55 ng/L (J)	92.1 ng/L	17.2 ng/L	26.4 ng/L	20.2 ng/L	39.2 ng/L	15.9 ng/L
PFOS	1.8 - 1.8 ng/L	n/a †	n/a ‡	158 ng/L	95.8 ng/L	111 ng/L	18 ng/L	157 ng/L	123 ng/L	141 ng/L	141 ng/L
Phenanthrene	< 0.013 - < 0.5 µg/L	n/a †	1070 µg/L	0.074 µg/L (J)	0.057 µg/L (J)	0.065 µg/L (J)	0.033 µg/L (J)	0.109 µg/L	0.106 µg/L	0.255 µg/L	0.216 µg/L
Phenol	< 0.5 - < 0.556 µg/L	300000 µg/L	160000 µg/L	< 0.505 µg/L	< 0.5 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L
Pyrene	< 0.028 - 0.087 µg/L	30 µg/L	n/a ‡	0.101 µg/L (J)	0.082 µg/L (J)	0.091 µg/L (J)	< 0.028 µg/L	0.107 µg/L	0.1 µg/L (J)	0.076 µg/L (J)	0.117 µg/L
Pyridine	< 0.5 - < 1.67 µg/L	947 µg/L	717 µg/L	< 1.02 µg/L	< 1.5 µg/L	< 1.53 µg/L	< 1.55 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.55 µg/L
sec-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - < 0.6 µg/L	n/a †	29600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - < 0.2 µg/L	10482 µg/L	5470 µg/L	2.88 µg/L (J)	2.37 µg/L (J)	9.35 µg/L	8.85 µg/L	8.82 µg/L	9.26 µg/L	3.5 µg/L	3.26 µg/L
tert-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - < 0.6 µg/L	280 µg/L	149 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - < 0.7 µg/L	1000 µg/L	16500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Total Organic Carbon	8820 - 9950 µg/L	n/a †	n/a ‡	18 mg/L	14.8 mg/L	31.4 mg/L	32.2 mg/L	54 mg/L	73 mg/L	43.3 mg/L	51.6 mg/L
Total TPH (C6-C35)	< 107 - < 108 µg/L	n/a †	n/a ‡	< 105 µg/L	< 105 µg/L	< 106 µg/L	< 105 µg/L	< 106 µg/L	222 µg/L (J)	< 106 µg/L	1,710 µg/L (J)
trans-1,2-Dichloroethene	< 0.2 - < 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - < 0.5 µg/L	n/a †	n/a ‡	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Trichloroethene	< 0.2 - < 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - < 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - < 0.2 µg/L	n/a †	8040000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - < 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - < 1 µg/L	16.5 µg/L	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - < 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	0.422 µg/L (J)	0.616 µg/L (J)	< 0.4 µg/L	0.559 µg/L (J)

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
‡ No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 8, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS006		WS014	WS015			WS017	WS021
				PNTX1208X006A	PNTX1208X006B	PNTX1208X014	PNTX1208X015B	PNTX1208X015A	PNTX1208X015B	PNTX1208X017	PNTX1208X021
				Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified
Hexachlorobenzene	< 0.51 - < 0.7 µg/L	0.00066 µg/L	n/a ‡	< 0.521 µg/L	< 0.5 µg/L	< 0.525 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.506 µg/L
Hexachlorobutadiene	< 0.3 - < 1 µg/L	0.22 µg/L	6.9 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.525 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.506 µg/L
Hexachlorocyclopentadiene	< 1 - < 1.67 µg/L	11.6 µg/L	256 µg/L	< 1.05 µg/L	< 1.5 µg/L	< 1.53 µg/L	< 1.56 µg/L	< 1.53 µg/L	< 1.5 µg/L	< 1.53 µg/L	< 1.52 µg/L
Hexachloroethane	< 0.51 - < 1 µg/L	2.55 µg/L	n/a ‡	< 0.521 µg/L	< 0.5 µg/L	< 0.525 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.506 µg/L
Indeno(1,2,3-cd)pyrene	< 0.014 - 0.068 µg/L	0.013 µg/L	n/a ‡	< 0.013 µg/L	< 0.013 µg/L	< 0.01 µg/L	0.028 µg/L (J)	0.052 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L
Isophorone	< 0.5 - < 0.556 µg/L	18000 µg/L	10400 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.525 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.506 µg/L
Isopropylbenzene (Cumene)	< 0.2 - < 0.6 µg/L	n/a †	8440 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.255 - < 0.278 µg/L	n/a †	19600 µg/L	< 0.26 µg/L	< 0.25 µg/L	< 0.263 µg/L	< 0.26 µg/L	< 0.255 µg/L	< 0.25 µg/L	< 0.255 µg/L	< 0.253 µg/L
m,p-Xylene	< 0.2 - < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.347 µg/L (J)	1.09 µg/L (J)	1.15 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Methyl iodide	< 0.5 - < 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - < 1 µg/L	18333 µg/L	3370 µg/L	< 0.53 µg/L	< 0.719 µg/L	< 0.573 µg/L	< 0.555 µg/L	< 0.553 µg/L	< 0.55 µg/L	< 0.56 µg/L	< 1.2 µg/L
n-Butylbenzene	< 0.2 - < 0.7 µg/L	n/a †	1200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.51 - < 1 µg/L	5.1 µg/L	1.98 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.525 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.506 µg/L
n-Nitrosodimethylamine	< 0.5 - < 0.556 µg/L	50 µg/L	0.962 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.525 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.506 µg/L
n-Nitrosodiphenylamine	< 0.51 - < 0.8 µg/L	60 µg/L	421 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.525 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.506 µg/L
n-Propylbenzene	< 0.6 - < 1 µg/L	n/a †	2550 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Naphthalene	< 0.019 - < 2 µg/L	n/a †	2550 µg/L	0.509 µg/L	1.22 µg/L	< 0.013 µg/L	0.68 µg/L	0.605 µg/L (J)	0.649 µg/L	0.356 µg/L	0.282 µg/L (J)
Nitrobenzene	< 0.51 - < 1 µg/L	1672 µg/L	248 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.525 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.506 µg/L
o-Cresol	< 0.51 - < 0.8 µg/L	n/a †	19600 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.525 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.506 µg/L
o-Xylene	< 0.2 - < 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.527 µg/L (J)	0.529 µg/L (J)	0.649 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - < 1600 µg/L	n/a †	n/a ‡	3.5 mg/L (J)	4.1 mg/L (J)	< 1.6 mg/L	1.6 mg/L (J)	< 1.5 mg/L	2 mg/L (J)	4.3 mg/L (J)	2.1 mg/L (J)
Pentachlorophenol	< 0.51 - < 0.6 µg/L	0.29 µg/L	3.92 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.525 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.506 µg/L
PFHxS	< 1.64 - < 1.64 ng/L	n/a †	n/a ‡	32.5 ng/L	23.5 ng/L	< 1.97 ng/L	77.5 ng/L	133 ng/L	70.4 ng/L	40.8 ng/L	103 ng/L
PFOA	< 1.8 - < 1.8 ng/L	n/a †	n/a ‡	16.7 ng/L	11.5 ng/L	1.63 ng/L (J)	7.38 ng/L (J)	13.7 ng/L	7.19 ng/L (J)	25.1 ng/L	20.3 ng/L
PFOS	1.8 - 1.8 ng/L	n/a †	n/a ‡	173 ng/L	103 ng/L (J)	3.55 ng/L (J)	265 ng/L	486 ng/L	255 ng/L	133 ng/L	174 ng/L
Phenanthrene	< 0.013 - < 0.5 µg/L	n/a †	1070 µg/L	< 0.013 µg/L	0.428 µg/L	< 0.013 µg/L	0.613 µg/L (J)	0.619 µg/L (J)	0.433 µg/L (J)	< 0.013 µg/L	0.187 µg/L (J)
Phenol	< 0.5 - < 0.556 µg/L	300000 µg/L	160000 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.525 µg/L	< 0.521 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	< 0.506 µg/L
Pyrene	< 0.028 - 0.087 µg/L	30 µg/L	n/a ‡	< 0.025 µg/L	0.076 µg/L (J)	< 0.026 µg/L	0.482 µg/L	0.505 µg/L (J)	0.391 µg/L	0.041 µg/L (J)	0.049 µg/L (J)
Pyridine	< 0.5 - < 1.67 µg/L	947 µg/L	717 µg/L	< 1.05 µg/L	< 1.5 µg/L	< 1.53 µg/L	< 1.56 µg/L	< 1.53 µg/L	< 1.5 µg/L	< 1.53 µg/L	< 1.52 µg/L
sec-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - < 0.6 µg/L	n/a †	29600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	1.58 µg/L (J)	1.71 µg/L (J)	2.11 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - < 0.2 µg/L	10482 µg/L	5470 µg/L	9.18 µg/L	7.79 µg/L	< 0.2 µg/L	36.5 µg/L	40.5 µg/L	38.3 µg/L	8.72 µg/L	9.5 µg/L
tert-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - < 0.6 µg/L	280 µg/L	149 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - < 0.7 µg/L	1000 µg/L	16500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Total Organic Carbon	8820 - 9950 µg/L	n/a †	n/a ‡	57.6 mg/L	80.4 mg/L	31.4 mg/L	34.8 mg/L	32.3 mg/L	36.7 mg/L	56.7 mg/L	52.4 mg/L
Total TPH (C6-C35)	< 107 - < 108 µg/L	n/a †	n/a ‡	< 105 µg/L	1,280 µg/L (J)	< 105 µg/L	< 105 µg/L	< 105 µg/L	< 106 µg/L	< 107 µg/L	< 106 µg/L
trans-1,2-Dichloroethene	< 0.2 - < 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - < 0.5 µg/L	n/a †	n/a ‡	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Trichloroethene	< 0.2 - < 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - < 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - < 0.2 µg/L	n/a †	8040000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - < 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - < 1 µg/L	16.5 µg/L	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - < 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	1.47 µg/L (J)	1.62 µg/L (J)	1.8 µg/L (J)	< 0.4 µg/L	< 0.4 µg/L

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 8, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS022 PNTX12089022 Level 2 Verified
Hexachlorobenzene	< 0.51 - < 0.7 µg/L	0.00066 µg/L	n/a ‡	< 0.5 µg/L
Hexachlorobutadiene	< 0.3 - < 1 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L
Hexachlorocyclopentadiene	< 1 - < 1.67 µg/L	11.6 µg/L	256 µg/L	< 1.67 µg/L
Hexachloroethane	< 0.51 - < 1 µg/L	2.33 µg/L	n/a ‡	< 0.5 µg/L
Indeno(1,2,3-cd)pyrene	< 0.014 - 0.068 µg/L	0.013 µg/L	n/a ‡	< 0.013 µg/L
Isophorone	< 0.5 - < 0.556 µg/L	16000 µg/L	10400 µg/L	< 0.5 µg/L
Isopropylbenzene (Cumene)	< 0.2 - < 0.6 µg/L	n/a †	8440 µg/L	1.52 µg/L (J)
m,p-Cresol	< 0.255 - < 0.278 µg/L	n/a †	19600 µg/L	< 0.255 µg/L
m,p-Xylene	< 0.2 - < 0.2 µg/L	n/a †	n/a ‡	1.21 µg/L (J)
Methyl iodide	< 0.5 - < 0.5 µg/L	n/a †	870 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - < 1 µg/L	13333 µg/L	3370 µg/L	< 0.727 µg/L
n-Butylbenzene	< 0.2 - < 0.7 µg/L	n/a †	1200 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.51 - < 1 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L
n-Nitrosodimethylamine	< 0.5 - < 0.556 µg/L	30 µg/L	0.962 µg/L	< 0.5 µg/L
n-Nitrosodiphenylamine	< 0.51 - < 0.8 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L
n-Propylbenzene	< 0.6 - < 1 µg/L	n/a †	2550 µg/L	< 1 µg/L
Naphthalene	< 0.013 - < 2 µg/L	n/a †	2550 µg/L	0.691 µg/L (J)
Nitrobenzene	< 0.51 - < 1 µg/L	1873 µg/L	248 µg/L	< 0.5 µg/L
o-Cresol	< 0.51 - < 0.8 µg/L	n/a †	19600 µg/L	< 0.5 µg/L
o-Xylene	< 0.2 - < 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - < 1600 µg/L	n/a †	n/a ‡	6.8 mg/L
Pentachlorophenol	< 0.51 - < 0.6 µg/L	0.29 µg/L	3.92 µg/L	< 0.5 µg/L
PFHxS	< 1.64 - < 1.64 ng/L	n/a †	n/a ‡	3.19 ng/L
PFOA	< 1.8 - < 1.8 ng/L	n/a †	n/a ‡	< 1.8 ng/L
PFOS	1.8 - 1.8 ng/L	n/a †	n/a ‡	< 1.8 ng/L
Phenanthrene	< 0.013 - < 0.5 µg/L	n/a †	1070 µg/L	0.25 µg/L (J)
Phenol	< 0.5 - < 0.556 µg/L	300000 µg/L	160000 µg/L	< 0.5 µg/L
Pyrene	< 0.028 - 0.087 µg/L	30 µg/L	n/a ‡	0.242 µg/L (J)
Pyridine	< 0.5 - < 1.67 µg/L	947 µg/L	717 µg/L	< 1.67 µg/L
sec-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1590 µg/L	< 0.2 µg/L
Styrene	< 0.2 - < 0.8 µg/L	n/a †	29600 µg/L	37.1 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - < 0.2 µg/L	10482 µg/L	5470 µg/L	2.8 µg/L
tert-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - < 0.6 µg/L	280 µg/L	149 µg/L	< 0.2 µg/L
Toluene	< 0.2 - < 0.7 µg/L	1000 µg/L	16500 µg/L	1.01 µg/L (J)
Total Organic Carbon	8820 - 9950 µg/L	n/a †	n/a ‡	130 mg/L
Total TPH (C6-C35)	< 107 - < 108 µg/L	n/a †	n/a ‡	3.59 µg/L
trans-1,2-Dichloroethene	< 0.2 - < 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	250 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - < 0.5 µg/L	n/a †	n/a ‡	< 0.5 µg/L
Trichloroethene	< 0.2 - < 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - < 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - < 0.2 µg/L	n/a †	6040000 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - < 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - < 1 µg/L	16.5 µg/L	11.3 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - < 1 µg/L	n/a †	24000 µg/L	1.21 µg/L (J)

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

South 4 Group Fire

Surface Water Screening Values - December 9, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS001	WS002	WS003	WS004	WS006	WS010	WS014	WS015
				PNTX1209X001A	PNTX1209X002A	PNTX1209X003A	PNTX1209X004A	PNTX1209X006A	PNTX1209X010	PNTX1209X014	PNTX1209X015A
				Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified
1-Methylnaphthalene	< 0.042 - < 0.045 µg/L	n/a †	4800 µg/L	< 0.04 µg/L	0.157 µg/L	4.14 µg/L	2.85 µg/L	5.51 µg/L	0.084 µg/L (J)	< 0.04 µg/L	0.248 µg/L (J)
1,1-Dichloroethane	< 0.2 - < 0.9 µg/L	n/a †	45800 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1-Dichloroethene	< 0.2 - < 1 µg/L	551.14 µg/L	16600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1-Dichloropropene	< 0.2 - < 0.8 µg/L	n/a †	62.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,1-Trichloroethane	< 0.2 - < 0.8 µg/L	784354 µg/L	47200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,1,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	n/a †	312 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,2-Trichloroethane	< 0.2 - < 1 µg/L	166 µg/L	325 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,2,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	26.35 µg/L	93.8 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dibromo-3-chloropropane	< 0.2 - < 1 µg/L	n/a †	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dibromoethane	< 0.2 - < 1 µg/L	4.24 µg/L	0.283 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dichlorobenzene	< 0.2 - < 1 µg/L	3299 µg/L	11300 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
1,2-Dichloroethane	< 0.2 - < 1 µg/L	364 µg/L	136 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dichloroethene(Total)	< 0.4 - < 0.4 µg/L	n/a †	n/a ‡	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L
1,2-Dichloropropane	< 0.2 - < 0.9 µg/L	259 µg/L	186 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2,3-Trichloropropane	< 0.2 - < 0.9 µg/L	n/a †	1.71 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2,4-Trichlorobenzene	< 0.2 - < 1 µg/L	0.076 µg/L	850 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
1,2,4-Trimethylbenzene	< 0.2 - < 0.8 µg/L	n/a †	8250 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.221 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2Diphenylhydrazine/Azobenzen	< 0.51 - < 0.556 µg/L	2 µg/L	9.57 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
1,3-Butadiene	< 0.5 - < 0.9 µg/L	n/a †	n/a ‡	0.857 µg/L (J)	< 0.5 µg/L	< 0.5 µg/L	0.741 µg/L (J)	< 0.5 µg/L	10.2 µg/L	< 0.5 µg/L	10.2 µg/L
1,3-Dichlorobenzene	< 0.2 - < 1 µg/L	595 µg/L	9760 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
1,3-Dichloropropane	< 0.2 - < 1 µg/L	n/a †	329 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,3,5-Trimethylbenzene	< 0.2 - < 0.6 µg/L	n/a †	3050 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,4-Dichlorobenzene	< 0.2 - < 1 µg/L	900 µg/L	196 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
2-Butanone	< 0.2 - < 0.2 µg/L	332000 µg/L	491000 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.45 µg/L	7.03 µg/L	7.74 µg/L	7.27 µg/L (J)	< 0.2 µg/L	11 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)
2-Chloronaphthalene	< 0.51 - < 1 µg/L	1000 µg/L	5430 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
2-Chlorophenol	< 0.51 - < 1 µg/L	890 µg/L	1990 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
2-Chlorotoluene	< 0.2 - < 0.6 µg/L	n/a †	2420 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
2-Hexanone	< 0.5 - < 0.5 µg/L	n/a †	33400 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
2-Methylnaphthalene	< 0.042 - < 1 µg/L	n/a †	276 µg/L	< 0.04 µg/L	0.075 µg/L (J)	1.63 µg/L	0.945 µg/L	1.04 µg/L	0.057 µg/L (J)	< 0.04 µg/L	0.27 µg/L (J)
2-Nitroaniline	< 0.51 - < 0.7 µg/L	n/a †	196 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
2-Nitrophenol	< 0.51 - < 0.9 µg/L	n/a †	886 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
2,2-Dichloropropane	< 0.2 - < 0.7 µg/L	n/a †	163 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
2,4-Dichlorophenol	< 0.51 - < 0.7 µg/L	60 µg/L	733 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
2,4-Dimethylphenol	< 0.51 - < 1 µg/L	3436 µg/L	4740 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
2,4-Dinitrophenol	< 0.8 - < 1.67 µg/L	300 µg/L	1270 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.53 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.50 µg/L	< 1.53 µg/L
2,4-Dinitrotoluene	< 0.51 - < 0.8 µg/L	17 µg/L	30 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
2,4,5-Trichlorophenol	< 0.51 - < 0.6 µg/L	1867 µg/L	14000 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
2,4,6-Trichlorophenol	< 0.51 - < 0.6 µg/L	28 µg/L	455 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
2,6-Dinitrotoluene	< 0.51 - < 0.6 µg/L	n/a †	30 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
3-Nitroaniline	< 0.51 - < 0.8 µg/L	n/a †	177 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
3,3'-Dichlorobenzidine	< 0.51 - < 0.6 µg/L	2.24 µg/L	20.7 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
4-Bromophenyl phenyl ether	< 0.51 - < 0.8 µg/L	n/a †	n/a ‡	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
4-Chloro-3-methylphenol	< 0.5 - < 0.556 µg/L	2000 µg/L	870 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
4-Chloroaniline	< 0.5 - < 0.556 µg/L	n/a †	2140 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
4-Chlorophenyl phenyl ether	< 0.51 - < 1 µg/L	n/a †	n/a ‡	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.501 µg/L	< 0.51 µg/L
4-Chlorotoluene	< 0.2 - < 0.5 µg/L	n/a †	2120 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
4-isopropyltoluene	< 0.2 - < 0.6 µg/L	n/a †	3700 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
4-Methyl-2-pentanone	< 0.2 - < 0.2 µg/L	n/a †	52700 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	2.3 µg/L	< 0.2 µg/L	2.46 µg/L (J)
4-Nitroaniline	< 0.8 - < 1.67 µg/L	n/a †	966 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.53 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.50 µg/L	< 1.53 µg/L
4-Nitrophenol	< 0.8 - < 1.67 µg/L	n/a †	1120 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.53 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.50 µg/L	< 1.53 µg/L
4,6-Dinitro-2-methylphenol	< 0.8 - < 1.67 µg/L	30 µg/L	1100 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.53 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.50 µg/L	< 1.53 µg/L

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 9, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS017 PNTX1209W017 Level 2 Verified
1-Methylnaphthalene	< 0.042 - < 0.045 µg/L	n/a †	4800 µg/L	2.31 µg/L
1,1-Dichloroethane	< 0.2 - < 0.9 µg/L	n/a †	45600 µg/L	< 0.2 µg/L
1,1-Dichloroethene	< 0.2 - < 1 µg/L	551.14 µg/L	16600 µg/L	< 0.2 µg/L
1,1-Dichloropropene	< 0.2 - < 0.8 µg/L	n/a †	62.2 µg/L	< 0.2 µg/L
1,1,1-Trichloroethane	< 0.2 - < 0.8 µg/L	784354 µg/L	47200 µg/L	< 0.2 µg/L
1,1,1,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	n/a †	31.2 µg/L	< 0.2 µg/L
1,1,2-Trichloroethane	< 0.2 - < 1 µg/L	166 µg/L	325 µg/L	< 0.2 µg/L
1,1,2,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	26.35 µg/L	93.6 µg/L	< 0.2 µg/L
1,2-Dibromo-3-chloropropane	< 0.2 - < 1 µg/L	n/a †	11.3 µg/L	< 0.2 µg/L
1,2-Dibromoethane	< 0.2 - < 1 µg/L	4.24 µg/L	0.283 µg/L	< 0.1 µg/L
1,2-Dichlorobenzene	< 0.2 - < 1 µg/L	3299 µg/L	11300 µg/L	< 0.5 µg/L
1,2-Dichloroethane	< 0.2 - < 1 µg/L	364 µg/L	136 µg/L	< 0.2 µg/L
1,2-Dichloroethene(Total)	< 0.4 - < 0.4 µg/L	n/a †	n/a ‡	< 0.4 µg/L
1,2-Dichloropropane	< 0.2 - < 0.9 µg/L	259 µg/L	186 µg/L	< 0.1 µg/L
1,2,3-Trichloropropane	< 0.2 - < 0.9 µg/L	n/a †	1.71 µg/L	< 0.2 µg/L
1,2,4-Trichlorobenzene	< 0.2 - < 1 µg/L	0.076 µg/L	650 µg/L	< 0.5 µg/L
1,2,4-Trimethylbenzene	< 0.2 - < 0.8 µg/L	n/a †	3250 µg/L	< 0.2 µg/L
1,2Diphenylhydrazine/Azobenzen	< 0.51 - < 0.556 µg/L	2 µg/L	0.57 µg/L	< 0.51 µg/L
1,3-Butadiene	< 0.5 - < 0.9 µg/L	n/a †	n/a ‡	< 0.5 µg/L
1,3-Dichlorobenzene	< 0.2 - < 1 µg/L	595 µg/L	9760 µg/L	< 0.5 µg/L
1,3-Dichloropropane	< 0.2 - < 1 µg/L	n/a †	129 µg/L	< 0.1 µg/L
1,3,5-Trimethylbenzene	< 0.2 - < 0.6 µg/L	n/a †	3050 µg/L	< 0.2 µg/L
1,4-Dichlorobenzene	< 0.2 - < 1 µg/L	900 µg/L	196 µg/L	< 0.5 µg/L
2-Butanone	< 0.2 - < 0.2 µg/L	332000 µg/L	491000 µg/L	6.34 µg/L (J)
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (R)
2-Chloronaphthalene	< 0.51 - < 1 µg/L	1000 µg/L	5430 µg/L	< 0.5 µg/L
2-Chlorophenol	< 0.51 - < 1 µg/L	800 µg/L	1990 µg/L	< 0.5 µg/L
2-Chlorotoluene	< 0.2 - < 0.6 µg/L	n/a †	2420 µg/L	< 0.2 µg/L
2-Hexanone	< 0.5 - < 0.5 µg/L	n/a †	33400 µg/L	< 0.1 µg/L
2-Methylnaphthalene	< 0.042 - < 1 µg/L	n/a †	276 µg/L	0.23 µg/L
2-Nitroaniline	< 0.51 - < 0.7 µg/L	n/a †	196 µg/L	< 0.5 µg/L
2-Nitrophenol	< 0.51 - < 0.9 µg/L	n/a †	886 µg/L	< 0.51 µg/L
2,2-Dichloropropane	< 0.2 - < 0.7 µg/L	n/a †	163 µg/L	< 0.2 µg/L
2,4-Dichlorophenol	< 0.51 - < 0.7 µg/L	60 µg/L	730 µg/L	< 0.5 µg/L
2,4-Dimethylphenol	< 0.51 - < 1 µg/L	8436 µg/L	4740 µg/L	< 0.51 µg/L
2,4-Dinitrophenol	< 0.8 - < 1.67 µg/L	300 µg/L	1270 µg/L	< 1.67 µg/L
2,4-Dinitrotoluene	< 0.51 - < 0.8 µg/L	17 µg/L	30 µg/L	< 0.5 µg/L
2,4,5-Trichlorophenol	< 0.51 - < 0.6 µg/L	1867 µg/L	14000 µg/L	< 0.5 µg/L
2,4,6-Trichlorophenol	< 0.51 - < 0.6 µg/L	28 µg/L	455 µg/L	< 0.51 µg/L
2,6-Dinitrotoluene	< 0.51 - < 0.6 µg/L	n/a †	30 µg/L	< 0.51 µg/L
3-Nitroaniline	< 0.51 - < 0.8 µg/L	n/a †	177 µg/L	< 0.5 µg/L
3,3'-Dichlorobenzidine	< 0.51 - < 0.6 µg/L	2.24 µg/L	20.7 µg/L	< 0.5 µg/L
4-Bromophenyl phenyl ether	< 0.51 - < 0.8 µg/L	n/a †	n/a ‡	< 0.51 µg/L
4-Chloro-3-methylphenol	< 0.5 - < 0.556 µg/L	2000 µg/L	870 µg/L	< 0.51 µg/L
4-Chloroaniline	< 0.5 - < 0.556 µg/L	n/a †	2140 µg/L	< 0.5 µg/L
4-Chlorophenyl phenyl ether	< 0.51 - < 1 µg/L	n/a †	n/a ‡	< 0.5 µg/L
4-Chlorotoluene	< 0.2 - < 0.5 µg/L	n/a †	2120 µg/L	< 0.1 µg/L
4-isopropyltoluene	< 0.2 - < 0.6 µg/L	n/a †	3700 µg/L	< 0.2 µg/L
4-Methyl-2-pentanone	< 0.2 - < 0.2 µg/L	n/a †	52700 µg/L	< 0.2 µg/L
4-Nitroaniline	< 0.8 - < 1.67 µg/L	n/a †	966 µg/L	< 1.55 µg/L
4-Nitrophenol	< 0.8 - < 1.67 µg/L	n/a †	1120 µg/L	< 1.67 µg/L
4,6-Dinitro-2-methylphenol	< 0.8 - < 1.67 µg/L	30 µg/L	1100 µg/L	< 1.62 µg/L

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

South 4 Group Fire

Surface Water Screening Values - December 9, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS001 PNTX1209X001A Level 2 Verified	WS002 PNTX1209X002A Level 2 Verified	WS003 PNTX1209X003A Level 2 Verified	WS004 PNTX1209X004A Level 2 Verified	WS006 PNTX1209X006A Level 2 Verified	WS010 PNTX1209X010 Level 2 Verified	WS014 PNTX1209X014 Level 2 Verified	WS015 PNTX1209X015A Level 2 Verified
>C12-C28	< 124 - < 126 µg/L	n/a †	n/a ‡	< 124 µg/L	626 µg/L (J)	1,840 µg/L (J)	2,410 µg/L	2,100 µg/L (J)	< 125 µg/L	< 124 µg/L	< 121 µg/L
>C28-C35	<124 - < 126 µg/L	n/a †	n/a ‡	< 124 µg/L	< 126 µg/L	< 124 µg/L	< 122 µg/L	< 121 µg/L	< 123 µg/L	< 124 µg/L	< 121 µg/L
Acenaphthene	< 0.013 - < 1 µg/L	90 µg/L	2440 µg/L	0.458 µg/L	0.276 µg/L	3.34 µg/L	3.13 µg/L	3.57 µg/L	0.024 µg/L (J)	< 0.013 µg/L	0.055 µg/L (J)
Acenaphthylene	< 0.042 - < 1 µg/L	n/a †	3260 µg/L	0.041 µg/L (J)	0.277 µg/L	4.6 µg/L	3.71 µg/L	4.6 µg/L	0.197 µg/L (J)	< 0.04 µg/L	0.682 µg/L (J)
Acetone	< 1.11 - 1.84 µg/L	n/a †	780000 µg/L	2.78 µg/L (J)	5.93 µg/L	21.4 µg/L	22 µg/L	52.9 µg/L	19 µg/L	2.53 µg/L (J)	9.57 µg/L
Acrolein	<2.5 - < 2.5 µg/L	400 µg/L	426 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - < 0.833 µg/L	n/a †	4630 µg/L	< 0.753 µg/L	< 0.753 µg/L	< 0.765 µg/L	< 0.75 µg/L	< 0.75 µg/L	3.76 µg/L (J)	< 0.781 µg/L	< 0.758 µg/L
Anthracene	<0.042 - < 0.5 µg/L	1317 µg/L	10700 µg/L	< 0.04 µg/L	< 0.04 µg/L	0.21 µg/L	0.224 µg/L	0.27 µg/L	< 0.042 µg/L	< 0.04 µg/L	0.111 µg/L (J)
Benzene	<0.2 - < 0.7 µg/L	581 µg/L	235 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.343 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	0.689 µg/L (J)	< 0.2 µg/L	2.2 µg/L (J)
Benzidine	< 1 - < 2.78 µg/L	0.107 µg/L	0.158 µg/L	< 2.53 µg/L	< 2.53 µg/L	< 2.55 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.6 µg/L	< 2.55 µg/L
Benzo(a)anthracene	< 0.028 - 0.077 µg/L	0.025 µg/L	n/a ‡	< 0.025 µg/L	< 0.025 µg/L	0.036 µg/L (J)	< 0.026 µg/L	< 0.025 µg/L	< 0.028 µg/L	< 0.025 µg/L	0.056 µg/L (J)
Benzo(a)pyrene	<0.014 - 0.079 µg/L	0.0025 µg/L	n/a ‡	< 0.013 µg/L	< 0.013 µg/L	0.026 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	0.036 µg/L (J)
Benzo(b)fluoranthene	< 0.014 - 0.118 µg/L	0.013 µg/L	n/a ‡	< 0.013 µg/L	< 0.013 µg/L	0.022 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	0.043 µg/L (J)
Benzo(g,h,i)perylene	< 0.014 - 0.062 µg/L	n/a †	n/a ‡	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	< 0.013 µg/L	0.029 µg/L (J)
Benzo(k)fluoranthene	< 0.028 - 0.051 µg/L	0.13 µg/L	n/a ‡	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.028 µg/L	< 0.025 µg/L	< 0.026 µg/L
Benzoic acid	<0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 1.52 µg/L	< 1.52 µg/L	< 1.53 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.55 µg/L	< 1.53 µg/L
Benzyl alcohol	< 0.51 - < 0.9 µg/L	n/a †	210000 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Bis(2-Chloroethoxy)methane	< 0.51 - < 0.6 µg/L	n/a †	12.3 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Bis(2-Chloroethyl)ether	< 0.51 - < 0.9 µg/L	42.83 µg/L	25.8 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Bis(2-Chloroisopropyl)ether	<0.51 - < 1 µg/L	4000 µg/L	181 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.255 - < 1 µg/L	7.55 µg/L	n/a ‡	< 0.253 µg/L	< 0.253 µg/L	< 0.255 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.26 µg/L	< 0.255 µg/L
Bromobenzene	<0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	<0.2 - < 11 µg/L	n/a †	26800 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	<0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.698 µg/L (J)	0.36 µg/L (J)	0.646 µg/L (J)	2.11 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	<0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	<0.255 - < 0.8 µg/L	1 µg/L	7880 µg/L	< 0.253 µg/L	< 0.253 µg/L	< 0.255 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.26 µg/L	< 0.255 µg/L
C6-C12	<107 - < 108 µg/L	n/a †	n/a ‡	< 107 µg/L	< 108 µg/L	< 106 µg/L	< 106 µg/L	< 104 µg/L	269 µg/L (J)	< 107 µg/L	< 104 µg/L
Carbazole	< 0.51 - < 0.556 µg/L	n/a †	n/a ‡	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Carbon disulfide	<0.2 - < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.996 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Carbon tetrachloride	<0.25 - < 0.6 µg/L	46 µg/L	n/a ‡	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2737 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	1.83 µg/L (J)	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chloroform	<0.2 - < 0.7 µg/L	7697 µg/L	2350 µg/L	2.56 µg/L (J)	< 0.2 µg/L	14.7 µg/L	16.4 µg/L	12.6 µg/L	19.8 µg/L	< 0.2 µg/L	2.6 µg/L (J)
Chloromethane	<0.2 - < 0.7 µg/L	n/a †	1950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chrysene	< 0.028 - 0.091 µg/L	2.52 µg/L	n/a ‡	< 0.025 µg/L	< 0.025 µg/L	0.031 µg/L (J)	< 0.026 µg/L	< 0.025 µg/L	< 0.028 µg/L	< 0.025 µg/L	0.053 µg/L (J)
cis-1,2-Dichloroethene	<0.2 - < 0.7 µg/L	n/a †	4180 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	<0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.51 - < 0.556 µg/L	92.4 µg/L	4490 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Di-n-octyl phthalate	< 0.255 - < 0.7 µg/L	n/a †	n/a ‡	< 0.253 µg/L	< 0.253 µg/L	< 0.255 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.26 µg/L	< 0.255 µg/L
Dibenz(a,h)anthracene	< 0.026 - < 0.6 µg/L	0.0013 µg/L	n/a ‡	< 0.025 µg/L	< 0.025 µg/L	< 0.025 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.028 µg/L	< 0.025 µg/L	< 0.026 µg/L
Dibenzofuran	<0.51 - < 1 µg/L	n/a †	219 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	183 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	<0.2 - < 0.8 µg/L	n/a †	37600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	<0.51 - < 0.6 µg/L	600 µg/L	307000 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Dimethyl phthalate	< 0.51 - < 0.9 µg/L	2000 µg/L	540000 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Ethylbenzene	<0.2 - < 0.7 µg/L	1867 µg/L	12800 µg/L	0.65 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	570 µg/L	< 0.2 µg/L	4.26 µg/L (J)
Ethylene Glycol	<265 - 315 µg/L	16800000 µg/L	1840000 µg/L	0.525 mg/L (J)	0.431 mg/L (J)	0.382 mg/L (J)	0.437 mg/L (J)	0.352 mg/L (J)	0.462 mg/L (J)	0.381 mg/L (J)	0.365 mg/L (J)
Fluoranthene	< 0.014 - 0.102 µg/L	20 µg/L	n/a ‡	0.081 µg/L (J)	< 0.013 µg/L	0.136 µg/L	0.123 µg/L	0.072 µg/L (J)	0.14 µg/L (J)	< 0.013 µg/L	0.336 µg/L (J)
Fluorene	< 0.042 - < 1 µg/L	70 µg/L	2110 µg/L	0.355 µg/L	< 0.04 µg/L	1.73 µg/L	1.16 µg/L	1.66 µg/L	0.062 µg/L (J)	< 0.04 µg/L	0.195 µg/L (J)

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 9, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS017 PNTX1209W017 Level 2 Verified
>C12-C28	< 124 - < 126 µg/L	n/a †	n/a ‡	2,000 µg/L (J)
>C28-C35	< 124 - < 126 µg/L	n/a †	n/a ‡	< 124 µg/L
Acenaphthene	< 0.012 - < 1 µg/L	90 µg/L	2440 µg/L	7.42 µg/L
Acenaphthylene	< 0.042 - < 1 µg/L	n/a †	3260 µg/L	4.84 µg/L
Acetone	< 1.11 - 1.84 µg/L	n/a †	780000 µg/L	1.9 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	426 µg/L	< 2.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L
Aniline	< 0.6 - < 0.932 µg/L	n/a †	4630 µg/L	< 0.795 µg/L
Anthracene	< 0.042 - < 0.5 µg/L	1317 µg/L	10700 µg/L	0.317 µg/L
Benzene	< 0.2 - < 0.7 µg/L	561 µg/L	235 µg/L	< 0.2 µg/L
Benzidine	< 1 - < 2.78 µg/L	0.107 µg/L	0.156 µg/L	< 2.88 µg/L
Benzo(a)anthracene	< 0.028 - 0.077 µg/L	0.025 µg/L	n/a ‡	< 0.025 µg/L
Benzo(a)pyrene	< 0.014 - 0.073 µg/L	0.0025 µg/L	n/a ‡	< 0.0025 µg/L
Benzo(b)fluoranthene	< 0.014 - 0.119 µg/L	0.012 µg/L	n/a ‡	< 0.012 µg/L
Benzo(g,h,i)perylene	< 0.024 - 0.062 µg/L	n/a †	n/a ‡	< 0.023 µg/L
Benzo(k)fluoranthene	< 0.028 - 0.051 µg/L	0.13 µg/L	n/a ‡	< 0.028 µg/L
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 1.95 µg/L
Benzyl alcohol	< 0.51 - < 0.9 µg/L	n/a †	210000 µg/L	< 0.51 µg/L
Bis(2-Chloroethoxy)methane	< 0.51 - < 0.6 µg/L	n/a †	12.3 µg/L	< 0.51 µg/L
Bis(2-Chloroethyl)ether	< 0.51 - < 0.9 µg/L	42.83 µg/L	25.6 µg/L	< 0.51 µg/L
Bis(2-Chloroisopropyl)ether	< 0.51 - < 1 µg/L	4000 µg/L	181 µg/L	< 0.51 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.255 - < 1 µg/L	7.55 µg/L	n/a ‡	< 0.255 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	26800 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	0.886 µg/L (J)
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.255 - < 0.8 µg/L	1 µg/L	7880 µg/L	< 0.255 µg/L
C6-C12	< 107 - < 108 µg/L	n/a †	n/a ‡	< 107 µg/L
Carbazole	< 0.51 - < 0.556 µg/L	n/a †	n/a ‡	< 0.51 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a ‡	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2757 µg/L	1580 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7697 µg/L	2550 µg/L	15.1 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1950 µg/L	< 0.2 µg/L
Chrysene	< 0.028 - 0.091 µg/L	2.52 µg/L	n/a ‡	< 0.025 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4180 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L
Di-n-butyl phthalate	< 0.51 - < 0.556 µg/L	92.4 µg/L	4490 µg/L	< 0.51 µg/L
Di-n-octyl phthalate	< 0.255 - < 0.7 µg/L	n/a †	n/a ‡	< 0.255 µg/L
Dibenz(a,h)anthracene	< 0.028 - < 0.6 µg/L	0.0015 µg/L	n/a ‡	< 0.02 µg/L
Dibenzofuran	< 0.51 - < 1 µg/L	n/a †	219 µg/L	< 0.51 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	193 µg/L	383 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.8 µg/L	n/a †	37600 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.51 - < 0.6 µg/L	600 µg/L	307000 µg/L	< 0.51 µg/L
Dimethyl phthalate	< 0.51 - < 0.9 µg/L	2000 µg/L	540000 µg/L	< 0.51 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L
Ethylene Glycol	< 265 - 315 µg/L	16300000 µg/L	1840000 µg/L	0.305 mg/L (J)
Fluoranthene	< 0.014 - 0.102 µg/L	20 µg/L	n/a ‡	< 0.05 µg/L
Fluorene	< 0.042 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.42 µg/L

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

South 4 Group Fire

Surface Water Screening Values - December 9, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS001 PNTX1209X001A Level 2 Verified	WS002 PNTX1209X002A Level 2 Verified	WS003 PNTX1209X003A Level 2 Verified	WS004 PNTX1209X004A Level 2 Verified	WS006 PNTX1209X006A Level 2 Verified	WS010 PNTX1209X010 Level 2 Verified	WS014 PNTX1209X014 Level 2 Verified	WS015 PNTX1209X015A Level 2 Verified
Hexachlorobenzene	< 0.51 - < 0.7 µg/L	0.00066 µg/L	n/a ‡	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Hexachlorobutadiene	< 0.3 - < 1 µg/L	0.22 µg/L	6.9 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Hexachlorocyclopentadiene	< 1 - < 1.67 µg/L	11.6 µg/L	256 µg/L	< 1.02 µg/L	< 1.01 µg/L	< 1.03 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 1.04 µg/L	< 1.03 µg/L
Hexachloroethane	< 0.51 - < 1 µg/L	2.33 µg/L	n/a ‡	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Indeno(1,2,3-cd)pyrene	< 0.014 - 0.068 µg/L	0.013 µg/L	n/a ‡	< 0.013 µg/L	< 0.013 µg/L	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	< 0.01 µg/L	< 0.013 µg/L	0.03 µg/L (J)
Isophorone	< 0.5 - < 0.556 µg/L	18000 µg/L	10400 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Isopropylbenzene (Cumene)	< 0.2 - < 0.6 µg/L	n/a †	8440 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	1.37 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.255 - < 0.278 µg/L	n/a †	19600 µg/L	< 0.253 µg/L	< 0.253 µg/L	< 0.255 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.261 µg/L	< 0.255 µg/L
m,p-Xylene	< 0.2 - < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.966 µg/L (J)
Methyl iodide	< 0.5 - < 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - < 1 µg/L	18333 µg/L	3370 µg/L	< 0.44 µg/L	< 0.43 µg/L	< 1.71 µg/L	< 1.15 µg/L	< 0.76 µg/L	< 1.0 µg/L	< 0.456 µg/L	< 0.56 µg/L
n-Butylbenzene	< 0.2 - < 0.7 µg/L	n/a †	1200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.51 - < 1 µg/L	5.1 µg/L	1.98 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
n-Nitrosodimethylamine	< 0.5 - < 0.556 µg/L	30 µg/L	0.962 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
n-Nitrosodiphenylamine	< 0.51 - < 0.8 µg/L	60 µg/L	421 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
n-Propylbenzene	< 0.6 - < 1 µg/L	n/a †	2550 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L
Naphthalene	< 0.017 - < 2 µg/L	n/a †	2550 µg/L	0.093 µg/L (J)	0.298 µg/L	1.46 µg/L	1.36 µg/L	0.146 µg/L	0.102 µg/L (J)	< 0.013 µg/L	0.477 µg/L (J)
Nitrobenzene	< 0.51 - < 1 µg/L	1672 µg/L	248 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
o-Cresol	< 0.51 - < 0.8 µg/L	n/a †	19600 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
o-Xylene	< 0.2 - < 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.924 µg/L (J)	< 0.2 µg/L	0.565 µg/L (J)
Oil and Grease	< 1500 - < 1600 µg/L	n/a †	n/a ‡	< 1.8 mg/L	< 1.8 mg/L	5.1 mg/L	3.9 mg/L (J)	4.4 mg/L (J)	14.1 mg/L	< 1.5 mg/L	2.3 mg/L (J)
Pentachlorophenol	< 0.51 - < 0.6 µg/L	0.29 µg/L	3.92 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
PFHxS	< 1.64 - < 1.64 ng/L	n/a †	n/a ‡	1.73 ng/L	53.5 ng/L	50.8 ng/L	53.1 ng/L	21.1 ng/L	7.92 ng/L (J)	5.54 ng/L (J)	98.2 ng/L
PFOA	< 1.8 - < 1.8 ng/L	n/a †	n/a ‡	5.98 ng/L (J)	15.5 ng/L	12.1 ng/L	12.7 ng/L	13.7 ng/L	2.22 ng/L (J)	< 1.8 ng/L	9.75 ng/L (J)
PFOS	1.8 - 1.8 ng/L	n/a †	n/a ‡	45.8 ng/L	147 ng/L	104 ng/L	182 ng/L	158 ng/L (J)	5.13 ng/L	103 ng/L	433 ng/L
Phenanthrene	< 0.013 - < 0.5 µg/L	n/a †	1070 µg/L	0.091 µg/L (J)	0.03 µg/L (J)	0.452 µg/L	0.274 µg/L	0.556 µg/L	0.217 µg/L (J)	< 0.013 µg/L	0.368 µg/L (J)
Phenol	< 0.5 - < 0.556 µg/L	300000 µg/L	160000 µg/L	< 0.505 µg/L	< 0.505 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.521 µg/L	< 0.51 µg/L
Pyrene	< 0.028 - 0.087 µg/L	30 µg/L	n/a ‡	0.102 µg/L	< 0.025 µg/L	0.182 µg/L	0.107 µg/L	0.073 µg/L (J)	0.305 µg/L (J)	< 0.025 µg/L	0.362 µg/L (J)
Pyridine	< 0.5 - < 1.67 µg/L	947 µg/L	717 µg/L	< 1.02 µg/L	< 1.01 µg/L	< 1.03 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L	< 1.04 µg/L	< 1.03 µg/L
sec-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - < 0.6 µg/L	n/a †	29600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.99 µg/L	< 0.2 µg/L	1.57 µg/L (J)
tert-Butyl methyl ether (MTBE)	< 0.2 - < 0.2 µg/L	10482 µg/L	5470 µg/L	1.83 µg/L (J)	3.88 µg/L	5.82 µg/L	4.44 µg/L	5.01 µg/L	8.13 µg/L	< 0.2 µg/L	31.4 µg/L
tert-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - < 0.6 µg/L	280 µg/L	149 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - < 0.7 µg/L	1000 µg/L	16500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	1.12 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L
Total Organic Carbon	8820 - 9950 µg/L	n/a †	n/a ‡	10.3 mg/L	38.8 mg/L	41.5 mg/L	43 mg/L	44.2 mg/L	54.3 mg/L	3.11 mg/L	27.5 mg/L
Total TPH (C6-C35)	< 107 - < 108 µg/L	n/a †	n/a ‡	< 107 µg/L	626 µg/L (J)	1,840 µg/L (J)	1,410 µg/L	2,100 µg/L (J)	269 µg/L (J)	< 107 µg/L	< 1.4 µg/L
trans-1,2-Dichloroethene	< 0.2 - < 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - < 0.5 µg/L	n/a †	n/a ‡	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L
Trichloroethene	< 0.2 - < 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - < 0.2 µg/L	n/a †	45300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - < 0.2 µg/L	n/a †	8040000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - < 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - < 1 µg/L	16.5 µg/L	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - < 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	0.924 µg/L (J)	< 0.4 µg/L	1.52 µg/L (J)

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
‡ No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 9, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS017 PNTX1209X017 Level 2 Verified
Hexachlorobenzene	< 0.51 - < 0.7 µg/L	0.00066 µg/L	n/a ‡	< 0.5 µg/L
Hexachlorobutadiene	< 0.3 - < 1 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L
Hexachlorocyclopentadiene	< 1 - < 1.67 µg/L	11.6 µg/L	256 µg/L	< 1.67 µg/L
Hexachloroethane	< 0.51 - < 1 µg/L	2.33 µg/L	n/a ‡	< 0.5 µg/L
Indeno(1,2,3-cd)pyrene	< 0.014 - 0.068 µg/L	0.013 µg/L	n/a ‡	< 0.013 µg/L
Isophorone	< 0.5 - < 0.556 µg/L	16000 µg/L	10400 µg/L	< 0.5 µg/L
Isopropylbenzene (Cumene)	< 0.2 - < 0.6 µg/L	n/a †	8440 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.255 - < 0.278 µg/L	n/a †	19600 µg/L	< 0.255 µg/L
m,p-Xylene	< 0.2 - < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L
Methyl iodide	< 0.5 - < 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - < 1 µg/L	15333 µg/L	3370 µg/L	< 0.695 µg/L
n-Butylbenzene	< 0.2 - < 0.7 µg/L	n/a †	1200 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.51 - < 1 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L
n-Nitrosodimethylamine	< 0.5 - < 0.556 µg/L	30 µg/L	0.962 µg/L	< 0.5 µg/L
n-Nitrosodiphenylamine	< 0.51 - < 0.8 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L
n-Propylbenzene	< 0.6 - < 1 µg/L	n/a †	2550 µg/L	< 1 µg/L
Naphthalene	< 0.013 - < 2 µg/L	n/a †	2550 µg/L	< 0.013 µg/L
Nitrobenzene	< 0.51 - < 1 µg/L	1873 µg/L	248 µg/L	< 0.5 µg/L
o-Cresol	< 0.51 - < 0.8 µg/L	n/a †	19600 µg/L	< 0.5 µg/L
o-Xylene	< 0.2 - < 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - < 1600 µg/L	n/a †	n/a ‡	5.8 mg/L
Pentachlorophenol	< 0.51 - < 0.6 µg/L	0.29 µg/L	3.92 µg/L	< 0.5 µg/L
PFHxS	< 1.64 - < 1.64 ng/L	n/a †	n/a ‡	27.4 ng/L
PFOA	< 1.8 - < 1.8 ng/L	n/a †	n/a ‡	15.2 ng/L
PFOS	1.8 - 1.8 ng/L	n/a †	n/a ‡	165 ng/L (J)
Phenanthrene	< 0.013 - < 0.5 µg/L	n/a †	1070 µg/L	0.435 µg/L
Phenol	< 0.5 - < 0.556 µg/L	300000 µg/L	160000 µg/L	< 0.5 µg/L
Pyrene	< 0.028 - 0.087 µg/L	30 µg/L	n/a ‡	0.214 µg/L
Pyridine	< 0.5 - < 1.67 µg/L	947 µg/L	717 µg/L	< 1.67 µg/L
sec-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1590 µg/L	< 0.2 µg/L
Styrene	< 0.2 - < 0.8 µg/L	n/a †	29600 µg/L	< 0.2 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - < 0.2 µg/L	10482 µg/L	5470 µg/L	1.19 µg/L
tert-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - < 0.6 µg/L	280 µg/L	149 µg/L	< 0.2 µg/L
Toluene	< 0.2 - < 0.7 µg/L	1000 µg/L	16500 µg/L	< 0.2 µg/L
Total Organic Carbon	8820 - 9950 µg/L	n/a †	n/a ‡	< 1.0 mg/L
Total TPH (C6-C35)	< 107 - < 108 µg/L	n/a †	n/a ‡	2,000 µg/L (J)
trans-1,2-Dichloroethene	< 0.2 - < 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	250 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - < 0.5 µg/L	n/a †	n/a ‡	< 0.5 µg/L
Trichloroethene	< 0.2 - < 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - < 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - < 0.2 µg/L	n/a †	6040000 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - < 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - < 1 µg/L	16.5 µg/L	11.3 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - < 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

South 4 Group Fire

Surface Water Screening Values - December 10, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS002	WS003		WS006	WS009	WS016	WS017
				PNTX1210Y002	PNTX1210Y003	PNTX1210Y003	PNTX1210Y006	PNTX1210Y009	PNTX1210X016	PNTX1210X017
				Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified	Level 2 Verified
1-Methylnaphthalene	< 0.042 - < 0.045 µg/L	n/a †	4800 µg/L	< 0.041 µg/L	2.35 µg/L	2.31 µg/L	< 0.041 µg/L	< 0.042 µg/L	NA	< 0.041 µg/L
1,1-Dichloroethane	< 0.2 - < 0.9 µg/L	n/a †	45600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,1-Dichloroethene	< 0.2 - < 1 µg/L	551.14 µg/L	16600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,1-Dichloropropene	< 0.2 - < 0.8 µg/L	n/a †	62.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,1,1-Trichloroethane	< 0.2 - < 0.8 µg/L	784354 µg/L	47200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,1,1,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	n/a †	31.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,1,2-Trichloroethane	< 0.2 - < 1 µg/L	166 µg/L	325 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,1,2,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	26.35 µg/L	93.8 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,2-Dibromo-3-chloropropane	< 0.2 - < 1 µg/L	n/a †	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,2-Dibromoethane	< 0.2 - < 1 µg/L	4.24 µg/L	0.283 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,2-Dichlorobenzene	< 0.2 - < 1 µg/L	3299 µg/L	11300 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
1,2-Dichloroethane	< 0.2 - < 1 µg/L	364 µg/L	136 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,2-Dichloroethene(Total)	< 0.4 - < 0.4 µg/L	n/a †	n/a †	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	NA	< 0.4 µg/L
1,2-Dichloropropane	< 0.2 - < 0.9 µg/L	259 µg/L	186 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,2,3-Trichloropropane	< 0.2 - < 0.9 µg/L	n/a †	1.71 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,2,4-Trichlorobenzene	< 0.2 - < 1 µg/L	0.076 µg/L	850 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
1,2,4-Trimethylbenzene	< 0.2 - < 0.8 µg/L	n/a †	8250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,2Diphenylhydrazine/Azobenzen	< 0.51 - < 0.556 µg/L	2 µg/L	9.57 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
1,3-Butadiene	< 0.5 - < 0.8 µg/L	n/a †	n/a ‡	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
1,3-Dichlorobenzene	< 0.2 - < 1 µg/L	595 µg/L	9760 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
1,3-Dichloropropane	< 0.2 - < 1 µg/L	n/a †	129 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,3,5-Trimethylbenzene	< 0.2 - < 0.6 µg/L	n/a †	3050 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
1,4-Dichlorobenzene	< 0.2 - < 1 µg/L	800 µg/L	196 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
2-Butanone	< 0.2 - < 0.2 µg/L	332000 µg/L	491000 µg/L	< 0.2 µg/L	5.04 µg/L	5.27 µg/L	5.72 µg/L	< 0.2 µg/L	NA	6.99 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	1 µg/L (R)	NA	1 µg/L (R)
2-Chloronaphthalene	< 0.51 - < 1 µg/L	1000 µg/L	5430 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
2-Chlorophenol	< 0.51 - < 1 µg/L	800 µg/L	1930 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
2-Chlorotoluene	< 0.2 - < 0.6 µg/L	n/a †	2420 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
2-Hexanone	< 0.5 - < 0.5 µg/L	n/a †	33400 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
2-Methylnaphthalene	< 0.042 - < 1 µg/L	n/a †	276 µg/L	< 0.041 µg/L	0.527 µg/L	0.551 µg/L	< 0.041 µg/L	< 0.042 µg/L	NA	< 0.041 µg/L
2-Nitroaniline	< 0.51 - < 0.7 µg/L	n/a †	196 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
2-Nitrophenol	< 0.51 - < 0.9 µg/L	n/a †	886 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
2,2-Dichloropropane	< 0.2 - < 0.7 µg/L	n/a †	163 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
2,4-Dichlorophenol	< 0.51 - < 0.7 µg/L	60 µg/L	730 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
2,4-Dimethylphenol	< 0.51 - < 1 µg/L	3436 µg/L	4740 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
2,4-Dinitrophenol	< 0.8 - < 1.67 µg/L	300 µg/L	1270 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L	NA	< 1.53 µg/L
2,4-Dinitrotoluene	< 0.51 - < 0.8 µg/L	17 µg/L	30 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
2,4,5-Trichlorophenol	< 0.51 - < 0.6 µg/L	1867 µg/L	14000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
2,4,6-Trichlorophenol	< 0.51 - < 0.6 µg/L	28 µg/L	455 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
2,6-Dinitrotoluene	< 0.51 - < 0.6 µg/L	n/a †	30 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
3-Nitroaniline	< 0.51 - < 0.8 µg/L	n/a †	177 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
3,3'-Dichlorobenzidine	< 0.51 - < 0.6 µg/L	2.24 µg/L	20.7 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
4-Bromophenyl phenyl ether	< 0.51 - < 0.8 µg/L	n/a †	n/a ‡	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
4-Chloro-3-methylphenol	< 0.5 - < 0.556 µg/L	2000 µg/L	870 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
4-Chloroaniline	< 0.5 - < 0.556 µg/L	n/a †	2140 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
4-Chlorophenyl phenyl ether	< 0.51 - < 1 µg/L	n/a †	n/a ‡	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
4-Chlorotoluene	< 0.2 - < 0.5 µg/L	n/a †	2120 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
4-isopropyltoluene	< 0.2 - < 0.6 µg/L	n/a †	3700 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
4-Methyl-2-pentanone	< 0.2 - < 0.2 µg/L	n/a †	52700 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	1.44 µg/L (J)	< 0.2 µg/L	NA	< 0.2 µg/L
4-Nitroaniline	< 0.8 - < 1.67 µg/L	n/a †	966 µg/L	< 1.55 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L	NA	< 1.53 µg/L
4-Nitrophenol	< 0.8 - < 1.67 µg/L	n/a †	1120 µg/L	< 1.55 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L	NA	< 1.53 µg/L
4,6-Dinitro-2-methylphenol	< 0.8 - < 1.67 µg/L	30 µg/L	1100 µg/L	< 1.62 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L	NA	< 1.53 µg/L

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 10, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS002 PNTX1210Y002 Level 2 Verified	WS003 PNTX1210Y003 Level 2 Verified	WS003 PNTX1210Y003 Level 2 Verified	WS006 PNTX1210Y006 Level 2 Verified	WS009 PNTX1210Y009 Level 2 Verified	WS016 PNTX1210X016 Level 2 Verified	WS017 PNTX1210X017 Level 2 Verified
>C12-C28	< 124 - < 126 µg/L	n/a †	n/a ‡	1,120 µg/L (J)	< 250 µg/L	3,360 µg/L	11,700 µg/L	< 126 µg/L	1,630 µg/L	10,900 µg/L
>C28-C35	< 124 - < 126 µg/L	n/a †	n/a ‡	< 124 µg/L	< 125 µg/L	< 125 µg/L	8,520 µg/L	< 126 µg/L	< 122 µg/L	6,920 µg/L
Acenaphthene	< 0.012 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.012 µg/L	1.31 µg/L	2.61 µg/L	0.676 µg/L	< 0.016 µg/L	NA	< 0.015 µg/L
Acenaphthylene	< 0.042 - < 1 µg/L	n/a †	3260 µg/L	0.057 µg/L	3.29 µg/L	3.07 µg/L	1.32 µg/L	< 0.042 µg/L	NA	2.97 µg/L
Acetone	< 1.11 - 1.84 µg/L	n/a †	780000 µg/L	5.41 µg/L	14.7 µg/L	14.4 µg/L	22.7 µg/L	1.84 µg/L (J)	NA	21.5 µg/L
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	426 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	NA	< 2.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	NA	< 1 µg/L
Aniline	< 0.6 - < 0.833 µg/L	n/a †	4690 µg/L	< 0.795 µg/L	< 0.75 µg/L	< 0.75 µg/L	< 0.75 µg/L	< 0.75 µg/L	NA	< 0.705 µg/L
Anthracene	< 0.042 - < 0.5 µg/L	1317 µg/L	10700 µg/L	< 0.041 µg/L	0.140 µg/L	0.141 µg/L	0.169 µg/L	< 0.042 µg/L	NA	0.118 µg/L
Benzene	< 0.2 - < 0.7 µg/L	581 µg/L	285 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Benzidine	< 1 - < 2.78 µg/L	0.107 µg/L	0.158 µg/L	< 2.55 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.5 µg/L	< 2.55 µg/L	NA	< 2.55 µg/L
Benzo(a)anthracene	< 0.026 - 0.077 µg/L	0.025 µg/L	n/a ‡	< 0.025 µg/L	0.045 µg/L (J)	< 0.026 µg/L	0.047 µg/L (J)	0.077 µg/L (J)	NA	0.113 µg/L
Benzo(a)pyrene	< 0.014 - 0.073 µg/L	0.0025 µg/L	n/a ‡	< 0.013 µg/L	0.036 µg/L (J)	< 0.013 µg/L	0.053 µg/L (J)	0.079 µg/L (J)	NA	0.15 µg/L
Benzo(b)fluoranthene	< 0.014 - 0.119 µg/L	0.012 µg/L	n/a ‡	< 0.013 µg/L	0.092 µg/L (J)	< 0.013 µg/L	0.048 µg/L (J)	0.118 µg/L	NA	0.11 µg/L
Benzo(g,h,i)perylene	< 0.014 - 0.062 µg/L	n/a †	n/a ‡	< 0.013 µg/L	0.024 µg/L (J)	< 0.013 µg/L	0.041 µg/L (J)	0.062 µg/L (J)	NA	0.103 µg/L
Benzo(k)fluoranthene	< 0.026 - 0.051 µg/L	0.13 µg/L	n/a ‡	< 0.025 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	0.051 µg/L (J)	NA	0.027 µg/L (J)
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 0.55 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 1.67 µg/L	NA	< 0.53 µg/L
Benzyl alcohol	< 0.51 - < 0.9 µg/L	n/a †	210000 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
Bis(2-Chloroethoxy)methane	< 0.51 - < 0.6 µg/L	n/a †	12.3 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
Bis(2-Chloroethyl)ether	< 0.51 - < 0.9 µg/L	42.63 µg/L	25.8 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
Bis(2-Chloroisopropyl)ether	< 0.51 - < 1 µg/L	4000 µg/L	181 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.255 - < 1 µg/L	7.55 µg/L	n/a ‡	< 0.255 µg/L	< 0.25 µg/L	< 0.25 µg/L	0.75 µg/L (J)	< 0.255 µg/L	NA	1.21 µg/L (J)
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	26800 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.2 µg/L	0.443 µg/L (J)	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Butyl benzyl phthalate	< 0.255 - < 0.8 µg/L	1 µg/L	7880 µg/L	< 0.255 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.255 µg/L	NA	< 0.255 µg/L
C6-C12	< 107 - < 108 µg/L	n/a †	n/a ‡	< 107 µg/L	< 107 µg/L	< 106 µg/L	< 110 µg/L	< 108 µg/L	< 105 µg/L	2,730 µg/L
Carbazole	< 0.51 - < 0.556 µg/L	n/a †	n/a ‡	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	1.18 µg/L (J)	< 0.2 µg/L	NA	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a ‡	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2757 µg/L	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7697 µg/L	2550 µg/L	< 0.2 µg/L	10.4 µg/L	10.6 µg/L	3.6 µg/L	< 0.2 µg/L	NA	5.94 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Chrysene	< 0.028 - 0.091 µg/L	2.52 µg/L	n/a ‡	< 0.025 µg/L	0.029 µg/L (J)	< 0.026 µg/L	0.062 µg/L (J)	0.091 µg/L (J)	NA	0.154 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4180 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Di-n-butyl phthalate	< 0.51 - < 0.556 µg/L	92.4 µg/L	4490 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
Di-n-octyl phthalate	< 0.255 - < 0.7 µg/L	n/a †	n/a ‡	< 0.255 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.255 µg/L	NA	< 0.255 µg/L
Dibenz(a,h)anthracene	< 0.026 - < 0.6 µg/L	0.0015 µg/L	n/a ‡	< 0.025 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	< 0.026 µg/L	NA	< 0.025 µg/L
Dibenzofuran	< 0.51 - < 1 µg/L	n/a †	219 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	153 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	NA	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.8 µg/L	n/a †	37600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Diethyl phthalate	< 0.51 - < 0.6 µg/L	600 µg/L	307000 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
Dimethyl phthalate	< 0.51 - < 0.9 µg/L	2000 µg/L	540000 µg/L	< 0.51 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.51 µg/L	NA	< 0.51 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	0.367 µg/L (J)	< 0.2 µg/L	NA	< 0.2 µg/L
Ethylene Glycol	< 265 - 315 µg/L	16300000 µg/L	1840000 µg/L	< 0.265 mg/L	< 0.265 mg/L	< 0.265 mg/L	0.266 mg/L (J)	< 0.265 mg/L	NA	< 0.265 mg/L
Fluoranthene	< 0.014 - 0.102 µg/L	20 µg/L	n/a ‡	< 0.012 µg/L	0.156 µg/L	0.077 µg/L (J)	0.063 µg/L (J)	0.102 µg/L (J)	NA	0.141 µg/L
Fluorene	< 0.042 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.041 µg/L	0.795 µg/L	0.375 µg/L	< 0.041 µg/L	< 0.042 µg/L	NA	< 0.040 µg/L

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 10, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS002 PNTX1210Y002 Level 2 Verified	WS003 PNTX1210Y003 Level 2 Verified	WS003 PNTX1210Y003 Level 2 Verified	WS006 PNTX1210Y006 Level 2 Verified	WS009 PNTX1210Y009 Level 2 Verified	WS016 PNTX1210X016 Level 2 Verified	WS017 PNTX1210X017 Level 2 Verified
Hexachlorobenzene	< 0.51 - < 0.7 µg/L	0.00066 µg/L	n/a ‡	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
Hexachlorobutadiene	< 0.3 - < 1 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
Hexachlorocyclopentadiene	< 1 - < 1.67 µg/L	11.6 µg/L	256 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L	NA	< 1.53 µg/L
Hexachloroethane	< 0.51 - < 1 µg/L	2.33 µg/L	n/a ‡	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
Indeno(1,2,3-cd)pyrene	< 0.014 - 0.068 µg/L	0.013 µg/L	n/a ‡	< 0.013 µg/L	0.023 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	0.068 µg/L (J)	NA	0.043 µg/L (J)
Isophorone	< 0.5 - < 0.556 µg/L	18000 µg/L	10400 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
Isopropylbenzene (Cumene)	< 0.2 - < 0.6 µg/L	n/a †	8440 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
m,p-Cresol	< 0.255 - < 0.278 µg/L	n/a †	19600 µg/L	< 0.255 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.25 µg/L	< 0.255 µg/L	NA	< 0.255 µg/L
m,p-Xylene	< 0.2 - < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Methyl iodide	< 0.5 - < 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Methylene chloride	< 0.2 - < 1 µg/L	18333 µg/L	3370 µg/L	< 0.397 µg/L	< 0.383 µg/L	< 0.378 µg/L	< 0.387 µg/L	< 0.397 µg/L	NA	< 0.395 µg/L
n-Butylbenzene	< 0.2 - < 0.7 µg/L	n/a †	1200 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.51 - < 1 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
n-Nitrosodimethylamine	< 0.5 - < 0.556 µg/L	50 µg/L	0.962 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
n-Nitrosodiphenylamine	< 0.51 - < 0.8 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
n-Propylbenzene	< 0.6 - < 1 µg/L	n/a †	2550 µg/L	< 0.697 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	< 1 µg/L	NA	< 1 µg/L
Naphthalene	< 0.013 - < 2 µg/L	n/a †	2550 µg/L	< 0.013 µg/L	0.095 µg/L (J)	0.095 µg/L (J)	< 0.013 µg/L	< 0.013 µg/L	NA	< 0.013 µg/L
Nitrobenzene	< 0.51 - < 1 µg/L	1672 µg/L	248 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
o-Cresol	< 0.51 - < 0.8 µg/L	n/a †	19600 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
o-Xylene	< 0.2 - < 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Oil and Grease	< 1500 - < 1600 µg/L	n/a †	n/a ‡	1.8 mg/L (J)	< 1.6 mg/L	< 1.6 mg/L	< 1.6 mg/L	< 1.5 mg/L	NA	< 1.5 mg/L
Pentachlorophenol	< 0.51 - < 0.6 µg/L	0.29 µg/L	3.92 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
PFHxS	< 1.64 - < 1.64 ng/L	n/a †	n/a ‡	7.3 ng/L	43.3 ng/L	53.7 ng/L	23.7 ng/L	< 1.64 ng/L	NA	16.0 ng/L
PFOA	< 1.8 - < 1.8 ng/L	n/a †	n/a ‡	2.7 ng/L	16.6 ng/L	21 ng/L	12.6 ng/L	< 1.8 ng/L	NA	1.4 ng/L
PFOS	1.8 - 1.8 ng/L	n/a †	n/a ‡	1338 ng/L	102 ng/L	34.1 ng/L	NA	NA	NA	NA
Phenanthrene	< 0.013 - < 0.5 µg/L	n/a †	1070 µg/L	< 0.013 µg/L	0.305 µg/L	0.315 µg/L	0.144 µg/L	< 0.015 µg/L	NA	0.290 µg/L
Phenol	< 0.5 - < 0.556 µg/L	300000 µg/L	160000 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.51 µg/L
Pyrene	< 0.028 - 0.087 µg/L	30 µg/L	n/a †	< 0.02 µg/L	0.176 µg/L	0.081 µg/L (J)	0.12 µg/L	0.087 µg/L (J)	NA	0.284 µg/L
Pyridine	< 0.5 - < 1.67 µg/L	947 µg/L	717 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.5 µg/L	< 1.53 µg/L	NA	< 1.53 µg/L
sec-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Styrene	< 0.2 - < 0.6 µg/L	n/a †	29600 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - < 0.2 µg/L	10482 µg/L	5470 µg/L	4.97 µg/L (J)	4.95 µg/L (J)	4.75 µg/L (J)	7.27 µg/L	< 0.2 µg/L	NA	5.81 µg/L
tert-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Tetrachloroethene	< 0.2 - < 0.6 µg/L	280 µg/L	146 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Toluene	< 0.2 - < 0.7 µg/L	1000 µg/L	16500 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Total Organic Carbon	8820 - 9950 µg/L	n/a †	n/a ‡	28.4 mg/L	44.4 mg/L	41.5 mg/L	32 mg/L	8.35 mg/L	NA	41.3 mg/L
Total TPH (C6-C35)	< 107 - < 108 µg/L	n/a †	n/a ‡	1,120 µg/L (J)	4,250 µg/L	3,350 µg/L	47,500 µg/L	< 106 µg/L	1,600 µg/L	18,700 µg/L
trans-1,2-Dichloroethene	< 0.2 - < 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - < 0.5 µg/L	n/a †	n/a ‡	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	< 0.5 µg/L	NA	< 0.5 µg/L
Trichloroethene	< 0.2 - < 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - < 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - < 0.2 µg/L	n/a †	6040000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Vinyl acetate	< 0.2 - < 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Vinyl chloride	< 0.2 - < 1 µg/L	16.5 µg/L	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	< 0.2 µg/L	NA	< 0.2 µg/L
Xylene (total)	< 0.4 - < 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	< 0.4 µg/L	NA	< 0.4 µg/L

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 11, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS023 PNTX12111X023 Level 2 Verified	WS024 PNTX12111X024 Level 2 Verified
1-Methylnaphthalene	< 0.042 - < 0.045 µg/L	n/a †	4800 µg/L	< 0.042 µg/L	< 0.041 µg/L
1,1-Dichloroethane	< 0.2 - < 0.9 µg/L	n/a †	45800 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1-Dichloroethene	< 0.2 - < 1 µg/L	551.14 µg/L	16600 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1-Dichloropropene	< 0.2 - < 0.8 µg/L	n/a †	62.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,1-Trichloroethane	< 0.2 - < 0.8 µg/L	784354 µg/L	47200 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,1,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	n/a †	31.2 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,2-Trichloroethane	< 0.2 - < 1 µg/L	166 µg/L	325 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,1,2,2-Tetrachloroethane	< 0.2 - < 0.9 µg/L	26.35 µg/L	93.8 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dibromo-3-chloropropane	< 0.2 - < 1 µg/L	n/a †	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dibromoethane	< 0.2 - < 1 µg/L	4.24 µg/L	0.283 µg/L	< 0.1 µg/L	< 0.1 µg/L
1,2-Dichlorobenzene	< 0.2 - < 1 µg/L	3299 µg/L	11300 µg/L	< 0.5 µg/L	< 0.51 µg/L
1,2-Dichloroethane	< 0.2 - < 1 µg/L	364 µg/L	136 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2-Dichloroethene(Total)	< 0.4 - < 0.4 µg/L	n/a †	n/a ‡	< 0.4 µg/L	< 0.4 µg/L
1,2-Dichloropropane	< 0.2 - < 0.9 µg/L	259 µg/L	186 µg/L	< 0.1 µg/L	< 0.1 µg/L
1,2,3-Trichloropropane	< 0.2 - < 0.9 µg/L	n/a †	1.71 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2,4-Trichlorobenzene	< 0.2 - < 1 µg/L	0.076 µg/L	850 µg/L	< 0.5 µg/L	< 0.51 µg/L
1,2,4-Trimethylbenzene	< 0.2 - < 0.8 µg/L	n/a †	3250 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,2Diphenylhydrazine/Azobenzen	< 0.51 - < 0.556 µg/L	2 µg/L	9.57 µg/L	< 0.5 µg/L	< 0.51 µg/L
1,3-Butadiene	< 0.5 - < 0.9 µg/L	n/a †	n/a ‡	< 0.5 µg/L	< 0.5 µg/L
1,3-Dichlorobenzene	< 0.2 - < 1 µg/L	595 µg/L	9760 µg/L	< 0.5 µg/L	< 0.51 µg/L
1,3-Dichloropropane	< 0.2 - < 1 µg/L	n/a †	129 µg/L	< 0.1 µg/L	< 0.1 µg/L
1,3,5-Trimethylbenzene	< 0.2 - < 0.6 µg/L	n/a †	3050 µg/L	< 0.2 µg/L	< 0.2 µg/L
1,4-Dichlorobenzene	< 0.2 - < 1 µg/L	900 µg/L	186 µg/L	< 0.5 µg/L	< 0.51 µg/L
2-Butanone	< 0.2 - < 0.2 µg/L	332000 µg/L	491000 µg/L	< 0.2 µg/L	< 0.2 µg/L
2-Chloroethylvinyl ether	1 - 1 µg/L	n/a †	16.2 µg/L	1 µg/L (R)	1 µg/L (R)
2-Chloronaphthalene	< 0.51 - < 1 µg/L	1000 µg/L	5430 µg/L	< 0.5 µg/L	< 0.51 µg/L
2-Chlorophenol	< 0.51 - < 1 µg/L	800 µg/L	1990 µg/L	< 0.5 µg/L	< 0.51 µg/L
2-Chlorotoluene	< 0.2 - < 0.6 µg/L	n/a †	2420 µg/L	< 0.2 µg/L	< 0.2 µg/L
2-Hexanone	< 0.5 - < 0.5 µg/L	n/a †	33400 µg/L	< 0.5 µg/L	< 0.5 µg/L
2-Methylnaphthalene	< 0.042 - < 1 µg/L	n/a †	276 µg/L	< 0.042 µg/L	< 0.041 µg/L
2-Nitroaniline	< 0.51 - < 0.7 µg/L	n/a †	196 µg/L	< 0.5 µg/L	< 0.51 µg/L
2-Nitrophenol	< 0.51 - < 0.9 µg/L	n/a †	886 µg/L	< 0.5 µg/L	< 0.51 µg/L
2,2-Dichloropropane	< 0.2 - < 0.7 µg/L	n/a †	163 µg/L	< 0.2 µg/L	< 0.2 µg/L
2,4-Dichlorophenol	< 0.51 - < 0.7 µg/L	60 µg/L	730 µg/L	< 0.5 µg/L	< 0.51 µg/L
2,4-Dimethylphenol	< 0.51 - < 1 µg/L	3436 µg/L	4740 µg/L	< 0.5 µg/L	< 0.51 µg/L
2,4-Dinitrophenol	< 0.8 - < 1.67 µg/L	300 µg/L	1270 µg/L	< 1.5 µg/L	< 1.53 µg/L
2,4-Dinitrotoluene	< 0.51 - < 0.8 µg/L	17 µg/L	30 µg/L	< 0.5 µg/L	< 0.51 µg/L
2,4,5-Trichlorophenol	< 0.51 - < 0.6 µg/L	1867 µg/L	14000 µg/L	< 0.5 µg/L	< 0.51 µg/L
2,4,6-Trichlorophenol	< 0.51 - < 0.6 µg/L	28 µg/L	455 µg/L	< 0.5 µg/L	< 0.51 µg/L
2,6-Dinitrotoluene	< 0.51 - < 0.6 µg/L	n/a †	30 µg/L	< 0.5 µg/L	< 0.51 µg/L
3-Nitroaniline	< 0.51 - < 0.9 µg/L	n/a †	177 µg/L	< 0.5 µg/L	< 0.51 µg/L
3,3'-Dichlorobenzidine	< 0.51 - < 0.6 µg/L	2.24 µg/L	20.7 µg/L	< 0.5 µg/L	< 0.51 µg/L
4-Bromophenyl phenyl ether	< 0.51 - < 0.8 µg/L	n/a †	n/a ‡	< 0.5 µg/L	< 0.51 µg/L
4-Chloro-3-methylphenol	< 0.5 - < 0.556 µg/L	2000 µg/L	870 µg/L	< 0.5 µg/L	< 0.51 µg/L
4-Chloroaniline	< 0.5 - < 0.556 µg/L	n/a †	2140 µg/L	< 0.5 µg/L	< 0.51 µg/L
4-Chlorophenyl phenyl ether	< 0.51 - < 1 µg/L	n/a †	n/a ‡	< 0.5 µg/L	< 0.51 µg/L
4-Chlorotoluene	< 0.2 - < 0.5 µg/L	n/a †	2120 µg/L	< 0.1 µg/L	< 0.1 µg/L
4-isopropyltoluene	< 0.2 - < 0.6 µg/L	n/a †	3700 µg/L	< 0.2 µg/L	< 0.2 µg/L
4-Methyl-2-pentanone	< 0.2 - < 0.2 µg/L	n/a †	52700 µg/L	< 0.2 µg/L	< 0.2 µg/L
4-Nitroaniline	< 0.8 - < 1.67 µg/L	n/a †	966 µg/L	< 1.5 µg/L	< 1.53 µg/L
4-Nitrophenol	< 0.8 - < 1.67 µg/L	n/a †	1120 µg/L	< 1.5 µg/L	< 1.53 µg/L
4,6-Dinitro-2-methylphenol	< 0.8 - < 1.67 µg/L	30 µg/L	1100 µg/L	< 1.5 µg/L	< 1.53 µg/L

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[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 11, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS023 PNTX12111X023 Level 2 Verified	WS024 PNTX12111X024 Level 2 Verified
>C12-C28	< 124 - < 126 µg/L	n/a †	n/a ‡	< 124 µg/L	< 124 µg/L
>C28-C35	< 124 - < 126 µg/L	n/a †	n/a ‡	< 124 µg/L	< 124 µg/L
Acenaphthene	< 0.012 - < 1 µg/L	90 µg/L	2440 µg/L	< 0.012 µg/L	< 0.012 µg/L
Acenaphthylene	< 0.042 - < 1 µg/L	n/a †	3260 µg/L	< 0.042 µg/L	< 0.041 µg/L
Acetone	< 1.11 - 1.84 µg/L	n/a †	780000 µg/L	1.2 µg/L (J)	1.89 µg/L (J)
Acrolein	< 2.5 - < 2.5 µg/L	400 µg/L	426 µg/L	< 2.5 µg/L	< 2.5 µg/L
Acrylonitrile	< 1 - < 1 µg/L	115 µg/L	75.7 µg/L	< 1 µg/L	< 1 µg/L
Aniline	< 0.6 - < 0.833 µg/L	n/a †	4630 µg/L	< 0.75 µg/L	< 0.755 µg/L
Anthracene	< 0.042 - < 0.5 µg/L	1317 µg/L	10700 µg/L	< 0.042 µg/L	< 0.041 µg/L
Benzene	< 0.2 - < 0.7 µg/L	561 µg/L	235 µg/L	< 0.1 µg/L	0.248 µg/L (J)
Benzidine	< 1 - < 2.78 µg/L	0.107 µg/L	0.156 µg/L	< 2.5 µg/L	< 2.55 µg/L
Benzo(a)anthracene	< 0.028 - 0.077 µg/L	0.025 µg/L	n/a ‡	< 0.025 µg/L	< 0.025 µg/L
Benzo(a)pyrene	< 0.014 - 0.073 µg/L	0.0025 µg/L	n/a ‡	< 0.013 µg/L	< 0.013 µg/L
Benzo(b)fluoranthene	< 0.014 - 0.118 µg/L	0.012 µg/L	n/a ‡	< 0.013 µg/L	< 0.013 µg/L
Benzo(g,h,i)perylene	< 0.014 - 0.062 µg/L	n/a †	n/a ‡	< 0.013 µg/L	< 0.013 µg/L
Benzo(k)fluoranthene	< 0.028 - 0.051 µg/L	0.13 µg/L	n/a ‡	< 0.02 µg/L	< 0.02 µg/L
Benzoic acid	< 0.5 - < 1.67 µg/L	n/a †	1880000 µg/L	< 1.5 µg/L	< 1.55 µg/L
Benzyl alcohol	< 0.51 - < 0.9 µg/L	n/a †	210000 µg/L	< 0.5 µg/L	< 0.51 µg/L
Bis(2-Chloroethoxy)methane	< 0.51 - < 0.6 µg/L	n/a †	12.3 µg/L	< 0.5 µg/L	< 0.51 µg/L
Bis(2-Chloroethyl)ether	< 0.51 - < 0.9 µg/L	42.83 µg/L	25.6 µg/L	< 0.5 µg/L	< 0.51 µg/L
Bis(2-Chloroisopropyl)ether	< 0.51 - < 1 µg/L	4000 µg/L	181 µg/L	< 0.5 µg/L	< 0.51 µg/L
Bis(2-Ethylhexyl)phthalate	< 0.255 - < 1 µg/L	7.55 µg/L	n/a ‡	< 0.25 µg/L	< 0.255 µg/L
Bromobenzene	< 0.2 - < 0.2 µg/L	n/a †	4200 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromochloromethane	< 0.2 - < 11 µg/L	n/a †	26800 µg/L	< 0.2 µg/L	< 0.2 µg/L
Bromodichloromethane	< 0.2 - < 1 µg/L	275 µg/L	477 µg/L	< 0.1 µg/L	< 0.1 µg/L
Bromoform	< 0.25 - < 0.25 µg/L	1060 µg/L	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L
Bromomethane	< 0.5 - < 2 µg/L	10000 µg/L	902 µg/L	< 0.5 µg/L	< 0.5 µg/L
Butyl benzyl phthalate	< 0.255 - < 0.8 µg/L	1 µg/L	7880 µg/L	< 0.25 µg/L	< 0.255 µg/L
C6-C12	< 107 - < 108 µg/L	n/a †	n/a ‡	< 106 µg/L	< 106 µg/L
Carbazole	< 0.51 - < 0.556 µg/L	n/a †	n/a ‡	< 0.5 µg/L	< 0.51 µg/L
Carbon disulfide	< 0.2 - < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L	< 0.2 µg/L
Carbon tetrachloride	< 0.25 - < 0.6 µg/L	46 µg/L	n/a ‡	< 0.25 µg/L	< 0.25 µg/L
Chlorobenzene	< 0.2 - < 0.7 µg/L	2757 µg/L	1580 µg/L	< 0.2 µg/L	< 0.2 µg/L
Chloroethane	< 0.25 - < 0.7 µg/L	n/a †	175000 µg/L	< 0.25 µg/L	< 0.25 µg/L
Chloroform	< 0.2 - < 0.7 µg/L	7697 µg/L	2550 µg/L	< 0.1 µg/L	< 0.1 µg/L
Chloromethane	< 0.2 - < 0.7 µg/L	n/a †	1850 µg/L	< 0.1 µg/L	< 0.1 µg/L
Chrysene	< 0.028 - 0.091 µg/L	2.52 µg/L	n/a ‡	< 0.025 µg/L	< 0.025 µg/L
cis-1,2-Dichloroethene	< 0.2 - < 0.7 µg/L	n/a †	4180 µg/L	< 0.2 µg/L	< 0.2 µg/L
cis-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	46.3 µg/L	< 0.1 µg/L	< 0.1 µg/L
Di-n-butyl phthalate	< 0.51 - < 0.556 µg/L	92.4 µg/L	4490 µg/L	< 0.5 µg/L	< 0.51 µg/L
Di-n-octyl phthalate	< 0.255 - < 0.7 µg/L	n/a †	n/a ‡	< 0.25 µg/L	< 0.255 µg/L
Dibenz(a,h)anthracene	< 0.028 - < 0.6 µg/L	0.0015 µg/L	n/a ‡	< 0.02 µg/L	< 0.02 µg/L
Dibenzofuran	< 0.51 - < 1 µg/L	n/a †	219 µg/L	< 0.5 µg/L	< 0.51 µg/L
Dibromochloromethane	< 0.2 - < 1 µg/L	153 µg/L	383 µg/L	< 0.2 µg/L	< 0.2 µg/L
Dibromomethane	< 0.25 - < 1 µg/L	n/a †	4300 µg/L	< 0.25 µg/L	< 0.25 µg/L
Dichlorodifluoromethane	< 0.2 - < 0.8 µg/L	n/a †	37600 µg/L	< 0.2 µg/L	< 0.2 µg/L
Diethyl phthalate	< 0.51 - < 0.6 µg/L	600 µg/L	307000 µg/L	< 0.5 µg/L	< 0.51 µg/L
Dimethyl phthalate	< 0.51 - < 0.9 µg/L	2000 µg/L	540000 µg/L	< 0.5 µg/L	< 0.51 µg/L
Ethylbenzene	< 0.2 - < 0.7 µg/L	1867 µg/L	12600 µg/L	< 0.2 µg/L	< 0.2 µg/L
Ethylene Glycol	< 265 - 315 µg/L	16300000 µg/L	1840000 µg/L	< 0.265 mg/L	< 0.265 mg/L
Fluoranthene	< 0.014 - 0.102 µg/L	20 µg/L	n/a ‡	< 0.012 µg/L	< 0.012 µg/L
Fluorene	< 0.042 - < 1 µg/L	70 µg/L	2110 µg/L	< 0.042 µg/L	< 0.041 µg/L

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(R) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Surface Water Screening Values - December 11, 2019[1]

Analyte	Background Range[2]	SWRBEL[3]	CRWPCL[4]	WS023 PNTX12111X023 Level 2 Verified	WS024 PNTX12111X024 Level 2 Verified
Hexachlorobenzene	< 0.51 - < 0.7 µg/L	0.00066 µg/L	n/a ‡	< 0.5 µg/L	< 0.51 µg/L
Hexachlorobutadiene	< 0.3 - < 1 µg/L	0.22 µg/L	6.9 µg/L	< 0.5 µg/L	< 0.51 µg/L
Hexachlorocyclopentadiene	< 1 - < 1.67 µg/L	11.6 µg/L	256 µg/L	< 1.5 µg/L	< 1.52 µg/L
Hexachloroethane	< 0.51 - < 1 µg/L	2.33 µg/L	n/a ‡	< 0.5 µg/L	< 0.51 µg/L
Indeno(1,2,3-cd)pyrene	< 0.014 - 0.068 µg/L	0.013 µg/L	n/a ‡	< 0.013 µg/L	< 0.013 µg/L
Isophorone	< 0.5 - < 0.556 µg/L	16000 µg/L	10400 µg/L	< 0.5 µg/L	< 0.51 µg/L
Isopropylbenzene (Cumene)	< 0.2 - < 0.6 µg/L	n/a †	8440 µg/L	< 0.2 µg/L	< 0.2 µg/L
m,p-Cresol	< 0.255 - < 0.278 µg/L	n/a †	19600 µg/L	< 0.25 µg/L	< 0.255 µg/L
m,p-Xylene	< 0.2 - < 0.2 µg/L	n/a †	n/a ‡	< 0.2 µg/L	< 0.2 µg/L
Methyl iodide	< 0.5 - < 0.5 µg/L	n/a †	670 µg/L	< 0.5 µg/L	< 0.5 µg/L
Methylene chloride	< 0.2 - < 1 µg/L	15333 µg/L	3370 µg/L	< 0.222 µg/L	< 0.2 µg/L
n-Butylbenzene	< 0.2 - < 0.7 µg/L	n/a †	1200 µg/L	< 0.2 µg/L	< 0.2 µg/L
n-Nitrosodi-n-propylamine	< 0.51 - < 1 µg/L	5.1 µg/L	1.98 µg/L	< 0.5 µg/L	< 0.51 µg/L
n-Nitrosodimethylamine	< 0.5 - < 0.556 µg/L	30 µg/L	0.962 µg/L	< 0.5 µg/L	< 0.51 µg/L
n-Nitrosodiphenylamine	< 0.51 - < 0.8 µg/L	60 µg/L	421 µg/L	< 0.5 µg/L	< 0.51 µg/L
n-Propylbenzene	< 0.6 - < 1 µg/L	n/a †	2550 µg/L	< 1 µg/L	< 1 µg/L
Naphthalene	< 0.013 - < 2 µg/L	n/a †	2550 µg/L	< 0.013 µg/L	< 0.013 µg/L
Nitrobenzene	< 0.51 - < 1 µg/L	1673 µg/L	248 µg/L	< 0.5 µg/L	< 0.51 µg/L
o-Cresol	< 0.51 - < 0.8 µg/L	n/a †	19600 µg/L	< 0.5 µg/L	< 0.51 µg/L
o-Xylene	< 0.2 - < 0.2 µg/L	n/a †	227000 µg/L	< 0.2 µg/L	< 0.2 µg/L
Oil and Grease	< 1500 - < 1600 µg/L	n/a †	n/a ‡	< 1.5 mg/L	< 1.4 mg/L
Pentachlorophenol	< 0.51 - < 0.6 µg/L	0.29 µg/L	3.92 µg/L	< 0.5 µg/L	< 0.51 µg/L
PFHxS	< 1.64 - < 1.64 ng/L	n/a †	n/a ‡	2.17 ng/L (J)	3.31 ng/L
PFOA	< 1.8 - < 1.8 ng/L	n/a †	n/a ‡	< 1.8 ng/L	3.1 ng/L (J)
PFOS	1.8 - 1.8 ng/L	n/a †	n/a ‡	26.1 ng/L	25.7 ng/L
Phenanthrene	< 0.013 - < 0.5 µg/L	n/a †	1070 µg/L	< 0.013 µg/L	< 0.013 µg/L
Phenol	< 0.5 - < 0.556 µg/L	300000 µg/L	160000 µg/L	< 0.5 µg/L	< 0.51 µg/L
Pyrene	< 0.028 - 0.087 µg/L	30 µg/L	n/a †	< 0.02 µg/L	< 0.021 µg/L
Pyridine	< 0.5 - < 1.67 µg/L	947 µg/L	717 µg/L	< 1.5 µg/L	< 1.52 µg/L
sec-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1590 µg/L	< 0.2 µg/L	< 0.2 µg/L
Styrene	< 0.2 - < 0.8 µg/L	n/a †	29600 µg/L	< 0.2 µg/L	< 0.2 µg/L
tert-Butyl methyl ether (MTBE)	< 0.2 - < 0.2 µg/L	10482 µg/L	5470 µg/L	< 0.2 µg/L	< 0.2 µg/L
tert-Butylbenzene	< 0.2 - < 0.5 µg/L	n/a †	1400 µg/L	< 0.2 µg/L	< 0.2 µg/L
Tetrachloroethene	< 0.2 - < 0.6 µg/L	280 µg/L	149 µg/L	< 0.2 µg/L	< 0.2 µg/L
Toluene	< 0.2 - < 0.7 µg/L	1000 µg/L	16500 µg/L	< 0.2 µg/L	< 0.2 µg/L
Total Organic Carbon	8820 - 9950 µg/L	n/a †	n/a ‡	7.74 mg/L	10.4 mg/L
Total TPH (C6-C35)	< 107 - < 108 µg/L	n/a †	n/a ‡	< 105 µg/L	< 106 µg/L
trans-1,2-Dichloroethene	< 0.2 - < 0.6 µg/L	4000 µg/L	6950 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,3-Dichloropropene	< 0.2 - < 1 µg/L	n/a †	250 µg/L	< 0.2 µg/L	< 0.2 µg/L
trans-1,4-Dichloro-2-butene	< 0.5 - < 0.5 µg/L	n/a †	n/a ‡	< 0.5 µg/L	< 0.5 µg/L
Trichloroethene	< 0.2 - < 0.7 µg/L	71.9 µg/L	1010 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorofluoromethane	< 0.2 - < 0.2 µg/L	n/a †	43300 µg/L	< 0.2 µg/L	< 0.2 µg/L
Trichlorotrifluoroethane	< 0.2 - < 0.2 µg/L	n/a †	6040000 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl acetate	< 0.2 - < 0.2 µg/L	n/a †	748000 µg/L	< 0.2 µg/L	< 0.2 µg/L
Vinyl chloride	< 0.2 - < 1 µg/L	16.5 µg/L	11.3 µg/L	< 0.2 µg/L	< 0.2 µg/L
Xylene (total)	< 0.4 - < 1 µg/L	n/a †	24000 µg/L	< 0.4 µg/L	< 0.4 µg/L

Detection Color Code
- Detected
- Detected Below RL
- Not Detected
- QAQC Rejected

[1] The data presented is preliminary, and has not undergone the full QA/QC process
[2] Range from background samples collected at WS000 and WS009
[3] Surface Water Risk Based Exposure Limit
[4] Tier 1 Contact Recreation Water PCL
† No Surface Water RBEL Available
‡ No Contact Recreation PCL available
(P) QC Rejected for unreliable result
(J) Quantitation is approximate

South 4 Group Fire

Asbestos Water Results - Results through Dec 10, 2019*

Location Code	Primary Identifier	Validation Level	Screening Value†	Asbestos
WS001	PNTX1206X001EMSA	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1206X001EMSB	Pending Validation	7 MF/L	< 2.60 MF/L
WS002	PNTX1206X002EMSA	Pending Validation	7 MF/L	< 0.53 MF/L
	PNTX1206X002EMSB	Pending Validation	7 MF/L	< 1.00 MF/L
	PNTX1210X002EMS	Pending Validation	7 MF/L	< 1.80 MF/L
WS003	PNTX1206X003EMSA	Pending Validation	7 MF/L	< 2.50 MF/L
	PNTX1206X003EMSB	Pending Validation	7 MF/L	< 1.00 MF/L
	PNTX1210V003EMS	Pending Validation	7 MF/L	< 5.30 MF/L
	PNTX1210X003EMS	Pending Validation	7 MF/L	< 5.30 MF/L
WS004	PNTX1206X004EMSA	Pending Validation	7 MF/L	< 1.00 MF/L
	PNTX1206X004EMSB	Pending Validation	7 MF/L	< 1.70 MF/L
WS006	PNTX1206X006EMSA	Pending Validation	7 MF/L	< 1.00 MF/L
	PNTX1206X006EMSB	Pending Validation	7 MF/L	< 1.10 MF/L
	PNTX1210X006EMS	Pending Validation	7 MF/L	< 53.00 MF/L
WS009	PNTX1210Y009EMS	Pending Validation	7 MF/L	< 5.30 MF/L
WS014	PNTX1206X014EMSA	Pending Validation	7 MF/L	< 1.70 MF/L
	PNTX1206X014EMSB	Pending Validation	7 MF/L	< 1.80 MF/L
WS015	PNTX1206X015EMS	Pending Validation	7 MF/L	< 5.30 MF/L
WS016	PNTX1206X016EMS	Pending Validation	7 MF/L	2.70 MF/L Chrysotile

* The data presented is preliminary, and has not undergone the full QA/QC process. Not all results received.

† Drinking Water MCL

Screening Comparison Color Code

Asbestos Detected

Asbestos Not Detected