



March 29, 2021

Michael Squire
Project Manager
New York State Department of Environmental
Conservation 625 Broadway
Albany, NY 12233-7014

**RE: PERIODIC REVIEW REPORT FOR BALCHEM PLANT SITE (SITE CODE: 336032),
ROUTE 284, WAWAYANDA, NEW YORK (HRP PROJECT #BAL6031.P2)**

Dear Mr. Squire,

In accordance with your request, outlined in your December 21, 2020 letter to Balchem Corporation, HRP Associates, Inc. is pleased to submit this Periodic Review Report (PRR) on the status of the remedial activities at the Balchem Site (DEC Site # 336032) conducted during 2020.

Executive Summary and Site Overview:

Site description and History

According to the information available in the Record of Decision, and the NYSDEC site remediation database, The Balchem site (the Site) is included in the New York State Registry of Inactive Hazardous Waste Disposal Sites, with a Classification of 04. The Site is located at 2007 Route 284, in the Town of Wawayanda, Orange County, New York. The site is approximately three acres in size and is located on Route 284 near its intersection with County Road 6. The property is bounded on the northwest by the Middletown and New Jersey Railroad, on the southeast by Route 284, and residential properties on the remaining sides. The property is presently owned and operated by the Balchem Corporation for the production of food additives and the repackaging of ethylene oxide.

Contamination at the site was discovered in 1982 during an excavation for a proposed addition to the site, during the subsequent investigation waste containing drums were removed from the site and soil cleanup objective were met. The Site Record describes onsite geology as:

Regionally, the geology is typically a folded shale or sandstone bedrock overlain by till. The till ranges in depth from 20ft on the ridges to over 150ft in the valleys. Joe Creek, a tributary to the Catlin Creek system, runs along the northwest boundary. In the vicinity of the drum removal, there are three distinct groundwater units: a seasonal perched water table, a weathered till (upper glacial) aquifer, and a fractured bedrock aquifer.

Volatile organic compound (VOC) contamination was discovered in two of the aquifers on site, the seasonal perched water table and the weathered till (upper glacial) aquifer. Under a Site Management Plan, the area is monitored to confirm continued low levels of VOCs.

Compliance with the Site Management Plan (SMP)

The "Groundwater Monitoring Plan, Balchem Corporation, Slate Hill, New York" prepared by Remediation Technologies, Inc., dated November 1996 acts as the SMP for the site. There is only one area of non-compliance with the SMP. The SMP requires that a deed restriction to insure that the property remains an industrial property be in place. An environmental covenant was filed with the Office of the County Clerk, Orange County, New York on April 5, 2017 that restricts the use of the property to commercial or industrial use, prohibits the use of groundwater at the site as a source of drinking water and requires the property owner, and future owners to implement the SMP.

The current deed restriction at the site is not compliance with the SMP because NYSDEC regulations require review and approval by the NYSDEC prior to the execution of a restriction. The current deed restriction was not reviewed or approved by the NYSDEC prior to its execution. To bring the deed restriction into compliance NYSDEC required an updated survey at the site. This was completed in November 2020. Balchem is working with HRP Associates and the NYSDEC to resolve this issue and re-submit the deed restriction. It is anticipated that this will be remedied in 2021, a Corrective Measures Workplan is included as **Attachment 3**.

Recommended changes to the SMP

No changes to the SMP are required or recommended at this time.

Evaluation of Remedy Performance, Effectiveness, and Protectiveness:

The objectives of the selected and implemented remedy at the Site is to protect human health and the environment by eliminating potential exposure by humans or animals to contaminated surface soil, preventing contaminated runoff from entering surface water and monitoring groundwater to ensure that the contaminated groundwater on site does not spread to potential human receptors. These performance, effectiveness and protectiveness goals are being met by the implementation of the SMP.

Engineering controls remain in place to control the direct exposure and surface soil pathways. Groundwater is sampled for contaminants of concern at the site every three years. Groundwater sampling was conducted in November 2020. At the request of the NYSDEC select groundwater monitoring wells were sampled for "Emerging Contaminants". These are chemicals of emerging concern to the NYSDEC and NYSDOH. A report summarizing this sampling event is attached. Additionally, data generated during this sampling event will be uploaded to the NYSDEC Equis Database system.

Overall PRR Conclusions and Recommendations:

Compliance with the SMP

The SMP stipulates that two institutional controls be implemented at the site. The first institutional control is that a sampling plan for groundwater be in place for the Site. Groundwater monitoring

is conducted every three years and was completed during 2020. This is in compliance with the SMP.

The second institutional control is that a deed restriction to ensure that the property remains an industrial property be in place. An environmental covenant was filed with the Office of the County Clerk, Orange County, New York on April 5, 2017 that restricts the use of the property to commercial or industrial use, prohibits the use of groundwater at the site as a source of drinking water and requires the property owner, and future owners to implement the SMP. The current deed restriction at the site is not compliance with the SMP because NYSDEC regulations require review and approval by the NYSDEC prior to the execution of a restriction. The current deed restriction was not reviewed or approved by the NYSDEC prior to its execution. To bring the deed restriction into compliance NYSDEC required an updated survey at the site. This was completed in November 2020. Balchem is working with HRP Associates and the NYSDEC to resolve this issue and re-submit the deed restriction. It is anticipated that this will be remedied in 2021, a Corrective Measures Workplan is included as Attachment 3.

One Engineering control is stipulated by the SMP; engineering controls at the site consists of the IRM groundwater interceptor trench installed to control a seasonal seep from the perched water table in the drum disposal area. This control remains in place and is functioning as intended.

Performance and Effectiveness of the Remedy

The objectives of the selected and implemented remedy at the Site is to protect human health and the environment by eliminating potential exposure by humans or animals to contaminated surface soil, preventing contaminated runoff from entering surface water and monitoring groundwater to ensure that the contaminated groundwater on site does not spread to potential human receptors.

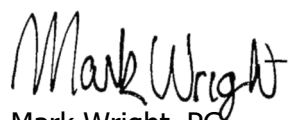
These performance, effectiveness and protectiveness goals are being met by the implementation of the SMP. Engineering controls remain in place to control the direct exposure and surface soil pathways. Groundwater is sampled for contaminants of concern at the site every three years. Groundwater was sampled in 2020.

Future PRR Submittals

The schedule of PRR submittals should continue unchanged. It should be noted that Balchem is currently evaluating additional remedial measures to address the low levels of groundwater VOC contamination present in the perched aquifer onsite and the potential remaining lead contaminated soil.

If you have any questions or require additional information, please feel free to contact HRP at (518) 877-7101.

Sincerely,



Mark Wright, PG
Project Manager

Attachments

Figure 1 – Site Layout

Attachment 1 – Emerging Contaminants Sampling Report
Attachment 2 – Institutional and Engineering Controls Report Form
Attachment 3 – Corrective Measures Workplace

FIGURES

ATTACHMENT 1

Emerging Contaminants Sampling Report



March 29, 2021

Michael Squire
Remedial Bureau C
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, NY 12233-7014

**RE: REPORT FOR SAMPLING EMERGING CONTAMINANTS AT BALCHEM FACILITY,
2007 ROUTE 284, SLATE HILL, NEW YORK (DEC SITE # 336032) (HRP
#BAL6029.P2)**

Dear Mr. Squire,

In accordance with the New York State Department of Health's request, as included in your November 9, 2020 email, HRP Associates, Inc. (HRP) is pleased to submit this letter report on behalf of Balchem Corporation (Site # 336032). This report summarizes field data and the groundwater sampling event, conducted on November 17, 2020, for 1,4-dioxane, per- and polyfluoroalkyl substances (PFAS), volatile organic compounds (VOCs), and lead. The remainder of this letter report consists of site background, field activities, data analysis, and discussion.

Background

The Balchem site is included in the New York State Registry of Inactive Hazardous Waste Disposal Sites, with a Classification of 04. According to the NYSDEC Site Record, Contamination at the site was discovered in 1982 during an excavation for a proposed addition to the site, during the subsequent investigation waste containing drums were removed from the site and soil cleanup objectives were met. According to the Site Record, the regional geology consists of folded shale or sandstone bedrock overlain by till. The till ranges in depth from 20 ft on the ridges to over 150 ft in the valleys. Joe Creek, a tributary to the Catlin Creek system, runs along the northwest boundary. Previous NYSDEC investigations determined that groundwater exists on-site in three distinct aquifers, two overburden aquifers; seasonal perched aquifer and a weathered till aquifer, and one bedrock aquifer, which is used as the primary drinking water resource in the area. Additionally, the previous NYSDEC investigations concluded that the seasonal perched aquifer and a weathered till aquifer are not hydrologically connected to the primary drinking water resource in the area, which is the bedrock aquifer.

VOCs and lead were discovered in two of the aquifers on site, the seasonal perched aquifer and the weathered till (upper glacial) aquifer. Under a Site Management Plan (SMP), the area is monitored every three years.

Based on the sites listing on the New York State Registry of Inactive Hazardous Waste Disposal Sites, the NYSDEC requested that sampling for emerging contaminants (1,4-dioxane and PFAS) be completed on a representative group of wells at the site. At the request of Balchem HRP developed a Letter Work Plan for Sampling Emerging Contaminants, dated August 1, 2018. This plan was submitted to the NYSDEC and was approved on September 12, 2018. Samples for

emerging contaminants at the site were collected from select monitoring wells on October 31, 2018. Results of the sampling indicated low levels of emerging contaminants were present in the onsite groundwater. Due to these detections additional sampling of wells located along the downgradient property line was requested by NYSDEC. This sampling was completed simultaneously with the VOC and lead sampling required under the SMP.

Field Activities

To evaluate if 1,4-dioxane and PFAS previously detected in onsite groundwater is migrating offsite and evaluate the concentrations of VOCs and lead in onsite groundwater, six (6) samples were collected from six (6) onsite groundwater monitoring wells. The well IDs and sampling rationale are tabulated below:

Well ID	Aquifer	Sampling Rationale
MW-2	Weathered till	Evaluate downgradient water quality, and determine if VOCs, lead, 1,4-dioxane and PFAS are present in groundwater migrating from the Site.
MW-3	Weathered till	Evaluate downgradient water quality and determine if 1,4-dioxane and PFAS are present in groundwater migrating from the Site.
MW-4S	Weathered till	Evaluate downgradient water quality, and determine if VOCs, lead, 1,4-dioxane and PFAS are present in groundwater migrating from the Site.
MW-4D	Bedrock	Evaluate downgradient water quality and determine if 1,4-dioxane and PFAS are present in groundwater migrating from the Site.
PZ-7	Seasonal perched water table	Determine if VOCs, lead, 1,4-dioxane and PFAS are present in groundwater onsite
IRM sump	Seasonal perched water	Evaluate downgradient water quality, and determine if VOCs, and lead are present in groundwater onsite.

A map showing sample locations is attached as Figure 1.

Sample Collection and Analysis

All samples were collected using USEPA low-flow techniques during the groundwater sampling event. During sampling, temperature, conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential were recorded every 3-5 minutes. All measurements were recorded in the field during sampling and are included as Attachment #1. Once the measurements indicated groundwater stabilization, groundwater was placed into laboratory-provided containers, labeled, and placed in an iced cooler for shipment to a New York State certified laboratory for analysis.

Due to the low detection limits required, and the prominence of PFAS in industrial materials, special precautions were implemented during sampling to prevent false positive results. These precautions included but are not limited to the following:

- Tubing used during sample collection constructed using high density polyethylene (HDPE) and silicone;
- Sampling personnel did not use GORE-TEX or other waterproofed materials during sampling;
- All clothing worn by sampling personnel was laundered multiple times;
- Nitrile gloves were used during sample collection;
- Samples were collected into sterile sample bottles that do not use a PTFE or Teflon bottle cap liner or seal.

To ensure data quality, one equipment blank, one field duplicate and one MS/MSD sample were collected. All samples were collected in accordance with the sampling guidance provided by the NYSDEC.

Findings

Groundwater Sampling Observations

HRP did not observe non-aqueous phase liquid (NAPL) or a sheen on any of the groundwater samples collected at the site.

Analytical Results

Samples for PFAS were analyzed for the full NYSDEC PFAS analyte list by Modified EPA Method 537. Samples for 1,4-dioxane were analyzed by EPA Method 8270 SIM. Samples for VOCs were analyzed via EPA Method 8260 and samples for Lead were analyzed via EPA method 6010. The results are discussed below and presented on Table 1. The laboratory report forms are included in Attachment #2.

Compounds detected in the groundwater samples during this investigation were compared to the following New York State guidance documents and standards:

- NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1); Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations dated October 1993; Revised June 1998; ERRATA Sheet dated January 1999; and Addendum dated April 2000 (NYSDEC Class GA).
- Screening values for groundwater contained in NYSDEC guidance document "SAMPLING, ANALYSIS, AND ASSESSMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) Under NYSDEC's Part 375 Remedial Programs", dated October 2020 (NYSDEC screening values)

PFAS

As detailed on Table 1, one or more PFAS compound was detected at concentrations exceeding laboratory detection limits but below NYSDEC screening values in each of the groundwater samples collected at the site. PFAS were not detected in the field blank.

1,4-Dioxane

As detailed on Table 1, 1,4-dioxane was detected at concentrations above the laboratory detection limit in three of the four groundwater samples collected at the site. Detected concentrations did not exceed NYSDEC screening values.

VOCs

As detailed on Table 1, one or more VOCs was detected at concentrations exceeding laboratory detection limits in two of the four groundwater samples collected at the site. VOCs were not detected at concentrations exceeding NYSDEC Class GA criteria, with the following exceptions: Benzene was detected at a concentration of 88 micrograms/liter (ug/L) (NYSDEC Class GA limit is 1 ug/L) in PZ-7, cis-1,2-dichloroethene was detected at a concentration of 3.3 ug/L (NYSDEC Class GA limit is 2 ug/L) in PZ-7, and vinyl chloride was detected at a concentration of 3.6 ug/L (NYSDEC Class GA limit is 2 ug/L) in PZ-7.

Lead

As detailed in Table 1, Lead was detected at concentrations exceeding the laboratory reporting limit but below the NYSDEC Class GA criteria in one of the four groundwater samples collected at the Site. Lead was detected at a concentration of 5.5 ug/L in PZ-7 (NYSDEC Class GA limit is 50 ug/L).

Conclusions

Based upon the data collected to date, HRP has the following conclusions:

- Emerging contaminants (1,4 dioxane and PFAS) were not detected at concentrations exceeding promulgated NYSDEC Class GA or NYSDEC screening levels. Previous investigations have demonstrated through aquifer testing and direct sampling that the weathered till and the seasonal perched aquifers, where emerging contaminants had previously been detected at concentrations above screening levels are not hydraulically connected to the bedrock aquifer that serves as a drinking water source for the area.
- VOCs and lead were detected at concentrations that are generally consistent with previous results. Further discussion of VOC and lead concentrations will be included in the Periodic Review Report for the site.

Closing

If you have any questions or require additional information, please feel free to contact HRP at (518) 877-7101.

Sincerely,



Kristen Amodeo
Senior Consultant



Mark Wright, PG
Project Manager

Figure

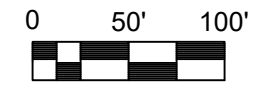
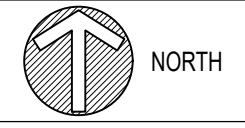
DRAWING NAME: S:\Data\B\BALCO - Balchem Corporation\WAWAYANDA, NY\BAL6025P2\CAD\Figure 2 - Site Sampling Locations.dwg LAYOUT: Figure 2 - Site Plan PLOT DATE: Nov 12, 2019 - 1:09pm OPERATOR: S\GETVAR???



- LEGEND:
- Site Location
 - Former Drum Burial Area
 - MW-6D ⊕ Monitoring Wells
 - PZ-6 ⊙ Piezometer
 - PW ○ Production Well



197 SCOTT SWAMP ROAD
 FARMINGTON, CT 06032
 (860) 674-9570
 HRPASSOCIATES.COM



REVISIONS	
NO.	DATE
1	2019/11/12

DESIGNED BY:	SRT
DRAWN BY:	SRT
REVIEWED BY:	MEW

ISSUE DATE:	11/12/2019
PROJECT NUMBER:	HER1500.P2
SHEET SIZE:	11"x17"

SITE PLAN
 Balchem Corporation
 2007 Route 284
 Slate Hill, New York

**GROUNDWATER
 FLOW
 DIRECTION**

Figure
1

Table

Table 1
Balchem Facility-DEC Site # 336032
2007 Route 284
Slate Hill, New York
Groundwater - Analyzed for polyfluoroalkyl substances (PFAS) and 1,4-dioxane

CAS #	Analyte Name	MW-2		MW-5D	MW-6	PZ-7		MW-3		MW-4D		MW-4S		IRM Sump		Potable Well
		Date	10/31/2018	11/17/2020	10/31/2018	10/31/2018	10/31/2018	11/17/2020	9/25/2019	11/17/2020	9/25/2019	11/17/2020	9/25/2019	11/17/2020	9/25/2019	11/17/2020
Aquifer		Till		Bedrock	Till	Shallow Perched		Till	Bedrock		Till		Shallow Perched		Bedrock	
PFAS by EPA Method 537 Modified (ng/L)																
	6:2 Fluorotelomersulfonate (6:2 FTS)	4.0	ND<1.7	ND<2	ND<2	39	ND<1.9	ND<2	ND<1.8	ND<2	ND<1.7	ND<2	ND<1.9	ND<2	NT	ND<2
	8:2 Fluorotelomersulfonate (8:2 FTS)	ND<2	ND<1.7	ND<2	ND<2	ND<2	ND<1.9	ND<2	ND<1.8	ND<2	ND<1.7	ND<2	ND<1.9	ND<2	NT	ND<2
	NEtFOSAA	ND<2	ND<1.7	ND<2	ND<2	ND<2	ND<1.9	ND<2	ND<1.8	ND<2	ND<1.7	ND<2	ND<1.9	ND<2	NT	ND<2
	NMeFOSAA	ND<2	ND<1.7	ND<2	ND<2	ND<2	1.7	ND<2	ND<1.8	ND<2	ND<1.7	ND<2	ND<1.9	ND<2	NT	ND<2
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.0	1.2	ND<2	ND<2	ND<2	ND<1.9	ND<2	0.82	ND<2	ND<1.7	ND<2	0.86	ND<2	NT	ND<2
375-22-4	Perfluorobutanoic acid (PFBA)	2.8	5.1	ND<2	ND<2	ND<2	1.1	ND<2	5.4	ND<2	1.2	ND<2	4.6	ND<2	NT	ND<2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND<2	ND<1.7	ND<2	ND<2	ND<2	ND<1.9	ND<2	ND<1.8	ND<2	ND<1.7	ND<2	ND<1.9	ND<2	NT	ND<2
335-76-2	Perfluorodecanoic acid (PFDA)	ND<2	2.2	ND<2	ND<2	ND<2	0.61	ND<2	1.8	2.4	2.4	ND<2	ND<1.9	2.9	NT	ND<2
307-55-1	Perfluorododecanoic acid (PFDoA)	ND<2	ND<1.7	ND<2	ND<2	ND<2	ND<1.9	ND<2	ND<1.8	ND<2	0.78	ND<2	ND<1.9	ND<2	NT	ND<2
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	ND<2	ND<1.7	ND<2	ND<2	ND<2	ND<1.9	ND<2	ND<1.8	ND<2	ND<1.7	ND<2	ND<1.9	ND<2	NT	ND<2
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND<2	2.6	ND<2	ND<2	ND<2	0.77	ND<2	1.1	ND<2	1.4	ND<2	1.3	4.3	NT	ND<2
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND<2	0.87	ND<2	ND<2	ND<2	0.83	ND<2	0.98	ND<2	ND<1.7	ND<2	ND<1.9	ND<2	NT	ND<2
307-24-4	Perfluorohexanoic acid (PFHxA)	3.8	3.7	ND<2	2.2	2.5	0.78	ND<2	1.5	2.1	1.2	ND<2	1.1	8.0	NT	ND<2
375-95-1	Perfluorononanoic acid (PFNA)	ND<2	1.8	ND<2	ND<2	ND<2	0.96	ND<2	1.3	33	34	ND<2	ND<1.9	2.2	NT	ND<2
75491-6	Perfluorooctanesulfonamide (FOSA)	ND<2	ND<1.7	ND<2	ND<2	ND<2	ND<1.9	ND<2	ND<1.8	ND<2	ND<1.7	ND<2	ND<1.9	ND<2	NT	ND<2
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.8	6.6	ND<2	ND<2	3.2	6.9	4.6	4.6	ND<2	0.94	ND<2	1.6	8.2	NT	ND<2
335-67-1	Perfluorooctanoic acid (PFOA)	8.9	7.1	ND<2	4.0	14	7.4	6.0	3.7	8.9	7.8	7.2	7.3	8.3	NT	ND<2
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.6	2.9	2.4	ND<2	ND<2	ND<1.9	4.1	1.2	ND<2	ND<1.7	ND<2	ND<1.9	6.0	NT	3.5
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND<2	ND<1.7	ND<2	ND<2	ND<2	ND<1.9	ND<2	ND<1.8	ND<2	ND<1.7	ND<2	ND<1.9	ND<2	NT	ND<2
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND<2	ND<1.7	ND<2	ND<2	ND<2	ND<1.9	ND<2	ND<1.8	ND<2	4.9	ND<2	ND<1.9	ND<2	NT	ND<2
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND<2	ND<1.7	ND<2	ND<2	ND<2	ND<1.9	ND<2	ND<1.8	11	15	ND<2	ND<1.9	ND<2	NT	ND<2
	Total PFAS	28.9	34.1	2.4	6.2	58.7	21.05	14.7	22.4	57.4	69.62	7.2	16.76	39.9	NT	3.5
1,4-Dioxane by EPA Method 8270 SIM (ug/L)																
123-91-1	1,4-Dioxane	1.2	1	0.27	ND<0.21	0.76	NT	NT	0.62	NT	0.27	NT	ND<0.21	ND<0.20	NT	0.53
Volatile Organic Compounds by EPA Method 8260 (ug/L)																
	Benzene	NT	ND <1	NT	NT	NT	88	NT	NT	NT	NT	NT	ND <1	ND <1	ND <1	NT
	cis-1,2-Dichloroethene	NT	ND <1	NT	NT	NT	3.3	NT	NT	NT	NT	NT	2	ND <1	ND <1	NT
	Vinyl Chloride	NT	ND <1	NT	NT	NT	3.6	NT	NT	NT	NT	NT	ND <1	ND <1	ND <1	NT
Total Metals by EPA Method 6010C (ug/L)																
	Lead	NT	ND <0.01	NT	NT	NT	5.5	NT	NT	NT	NT	NT	ND <0.01	ND <0.01	ND <0.01	NT

ND<2 Not Detected less than the detection limit of 2
ng/L nanograms per liter
ug/L micrograms per liter

ATTACHMENT 1

Field Sampling Forms



GROUNDWATER SAMPLING LOG

WELL I.D. MW-2

Project Name: Balchem – Slate Hill Plant

Sample Date & Time: 11/17/20
C 15:00

Weather: CLOUDY

Sampler: Stefan Truex (ST)

Location: Route 284, Wawayanda, NY

Sampling Equipment: Peristaltic Pump
YSI DSS Pro

Well Diameter: 2.0-INCH (ROAD-Box)

Well Depth: 14.97

Water Quality Parameters									
Time	DTW (ft btoc)	Volume (Gals)	Rate (ml/m)	pH (pH units)	ORP (mV)	Temp (°C)	Cond. (mS/cm)	DO (mg/L)	Turb. (NTU)
Static	3.59	0.0	0.0						
1430	3.68	0.1	0.2	7.10	-87.2	14.9	1014	1.47	127.72
1435	3.74	0.6	0.2	7.09	-84.4	14.9	958	1.41	100.12
1440 1440	3.80	1.0	0.2	7.07	-82.2	15.0	932	1.38	98.74
1445	3.99	1.6	0.2	7.03	-82.0	15.0	927	1.10	67.29
1450	4.04	2.0	0.2	7.01	-80.6	15.2	852	0.62	39.74
1455	4.05	2.5	0.2	7.00	-80.5	15.1	851	0.60	32.40
1500	4.05	3.0	0.2	6.98	-80.5	14.9	849	0.59	31.87
SAMPLE									

Notes:

Color: CLOUDY, BROWN

odor: NONE

Sheen: NONE

Analysis: PFAS, 1,4-DIOXANE, VOCs, LEAD



DRIVE YOUR ENVIRONMENT FORWARD

GROUNDWATER SAMPLING LOG

WELL I.D. MW-3

Project Name: Balchem - Slate Hill Plant

Sample Date & Time: 11/17/20 16⁰⁰

Weather: CLOUDY 32°F
BLEET


Sampler: Stefan Truex (ST)

Location: Route 284, Wawayanda, NY

Sampling Equipment: Peristaltic Pump
YSI DSS Pro

Well Diameter: 2.0-INCH (FLUSH-MOUNT)

Well Depth: 12.42

Water Quality Parameters									
Time	DTW (ft btoc)	Volume (Gals)	Rate (ml/m)	pH (pH units)	ORP (mV)	Temp (°C)	Cond. (mS/cm)	DO (mg/L)	Turb. (NTU)
Static	3.94	0.0	0.0						
1525	4.12	0.2	0.18	6.49	-23.5	13.5	2021	6.72	9.50
1530	4.17	0.4	0.20	6.53	-23.8	13.6	2032	6.73	10.03
1535	4.18	0.5	0.2	6.49	-24.6	13.6	2031	6.74	13.82
1540	4.20	0.6	0.2	6.49	-36.1	13.5	2012	6.00	17.41
1545	4.24	0.8	0.2	6.49	-36.4	13.6	2045	5.62	18.24
1550	4.28	1.0	0.2	6.49	-35.9	13.6	2059	5.51	19.41
1555	4.35	1.2	0.2	6.49	-36.5	13.6	2060	5.47	17.41
1600	SAMPLE								
									

Notes:

Color: LT BROWN TO CLEAR

odor: NONE

Sheen: NONE

Analysis: PFAS + 1,4-DIOXANE



GROUNDWATER SAMPLING LOG

WELL I.D. MW-45

Project Name: Balchem – Slate Hill Plant

Sample Date & Time: 11/17/2020 11⁰⁰ AM

Weather: 37°F, CLOUDY WIND WIND < 5MPH

Sampler: Stefan Truex (ST)

Location: Route 284, Wawayanda, NY

Sampling Equipment: Peristaltic Pump
YSI DSS Pro

Well Diameter: 2.0¹-INCH, FLUSH MOUNT

Well Depth: 14.05

Water Quality Parameters									
Time	DTW (ft btoc)	Volume (Gals)	Rate (ml/m)	pH (pH units)	ORP (mV)	Temp (°C)	Cond. (mS/cm)	DO (mg/L)	Turb. (NTU)
Static	4.35	0.0	0.0						
10 ²⁵	4.59	0.1	0.2	6.17	238.4	14.6	453.9	2.92	47.91
10 ³⁰	4.62	0.4	0.2	5.97	245.6	14.4	246.2	1.97	22.13
10 ³⁵	4.68	0.7	0.2	5.97	237.5	14.5	247.8	1.42	15.42
10 ⁴⁰	4.75	0.9	0.2	5.98	204.2	14.5	392.4	1.56	12.10
10 ⁴⁵	4.85	1.2	0.2	5.98	199.6	14.7	473.2	1.57	11.20
10 ⁵⁰	4.86	1.4	0.2	5.97	206.6	14.2	477.3	1.54	10.79
11 ⁰⁰	4.90	1.8	0.2	5.97	204.9	14.2	477.2	1.54	11.24
SAMPLE @ 11 ⁰⁰									

Notes:

Color: LT BROWN TO CLEAR

odor: NONE

Sheen: ~~NONE~~ YES, STREAKS, MODERATE

Analysis: PFAS, 1,4-DIOXANE, VOCs, LEAD



GROUNDWATER SAMPLING LOG

PZ-6

WELL I.D. [REDACTED]

Project Name: Balchem – Slate Hill Plant

Sample Date & Time: 11/17/20

Weather: ☁ SHOWERS, 35°F

Sampler: Stefan Truex (ST)

Location: Route 284, Wawayanda, NY

Sampling Equipment: Peristaltic Pump
YSI DSS Pro

Well Diameter: 2.0-INCH

Well Depth: 9.5Z

Water Quality Parameters									
Time	DTW (ft btoc)	Volume (Gals)	Rate (ml/m)	pH (pH units)	ORP (mV)	Temp (°C)	Cond. (mS/cm)	DO (mg/L)	Turb. (NTU)
Static	7.69	0.0	0.0						
1120	7.74	0.1	0.200	6.83	133.2	12.2	1504	4.24	743.20
1125	7.80	0.2	0.2	6.75	90.4	12.7	1207	3.47	567.49
1130	7.94	0.3	0.2	6.70	87.6	12.7	980	2.20	428.98
1135	8.00	0.5	0.2	6.66	57.4	13.0	924	1.20	68.76
1140	8.51	0.7	0.2	6.60	24.1	13.1	870	0.67	74.21
1145	8.1861	1.0	0.2	6.53	23.7	13.2	862	0.68	48.71
1150	8.64	1.2	0.2	6.52	36.0	13.0	861	0.68	27.79
1155	8.69	1.4	0.2	6.52	38.1	13.0	860	0.67	24.42
1200	8.74	1.6	0.2	6.52	37.2	13.0	860	0.67	21.98
NO SAMPLE - DRY									

Notes: SULPHUR ODOUR IN VICINITY OF WELL

Color: Lt BLN, SLIGHT SULPHUR ODOUR

odor: SLIGHT

Sheen: NONE

Analysis: PFAS, VOCs, LEAD



GROUNDWATER SAMPLING LOG

WELL I.D. [REDACTED] ST

Project Name: Balchem – Slate Hill Plant

Sample Date & Time: 11/17/2020 @ 13:00

Weather: SHOWERS 36°F

Sampler: Stefan Truex (ST)

Location: Route 284, Wawayanda, NY

Sampling Equipment: Peristaltic Pump
YSI DSS Pro

Well Diameter: 2.0-INCH (STECK-UP)

Well Depth: 15.6

Water Quality Parameters									
Time	DTW (ft btoc)	Volume (Gals)	Rate (ml/m)	pH (pH units)	ORP (mV)	Temp (°C)	Cond. (mS/cm)	DO (mg/L)	Turb. (NTU)
Static	13.35	0.0	0.0						
12 ²⁰	13.71	0.1	0.2	6.90	112.2	13.1	33.1	10.07	147.77
12 ²⁵	13.47	0.3	0.2	6.85	112.8	12.9	27.9	9.17	162.19
12 ³⁰	13.60	0.7	0.2	6.82	112.9	12.8	26.8	9.07	199.56
12 ³³	13.74	0.9	0.2	6.80	112.2	12.8	25.4	9.02	47.18
12 ³⁶	13.80	1.1	0.2	6.74	114.3	12.5	32.0	9.06	47.48
12 ³⁹	13.85	1.2	0.2	6.74	126.2	11.9	31.7	9.04	50.74
12 ⁴⁵	14.00	1.3	0.2	6.73	118.4	11.7	27.8	9.12	48.27
12 ⁵⁰	14.12	1.5	0.2	6.73	116.4	11.8	28.2	9.15	51.56
13 ⁰⁰	14.37	1.6	0.2	6.73	116.3	11.8	29.1	9.17	54.14
SAMPLE									

Notes:

Color: LIGHT BROWN TO CLEAR

odor: NONE

Sheen: NONE

Analysis: VOCs + LEAD

ATTACHMENT 2

Laboratory Report Forms

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-178350-1
Client Project/Site: Balchem - Slate Hill

For:
HRP Associates, Inc.
1 Fairchild Square
Suite 110
Clifton Park, New York 12065

Attn: Mark Wright



Authorized for release by:
12/2/2020 4:55:55 PM
Rebecca Jones, Project Management Assistant I
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Designee for
Joe Giacomazza, Project Manager I
(716)691-2600
joe.giacomazza@testamericainc.com

LINKS

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results through
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5	Isotope dilution analyte is outside acceptance limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Job ID: 480-178350-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-178350-1

Comments

No additional comments.

Receipt

The samples were received on 11/19/2020 8:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-560826 recovered above the upper control limit for Carbon disulfide, 1,1,2-Trichloro-1,2,2-trifluoroethane, Trichlorofluoromethane, and 2-Butanone (MEK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-4S (480-178350-2), MW-2 (480-178350-3), PZ-7 (480-178350-5) and IRM-SUMP (480-178350-6).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: PZ-7 (480-178350-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D SIM ID: The breakdown of 4,4'-DDT in the tuning evaluation exceeded 20%. Breakdown is not a criteria of the method but rather an internal check performed by the laboratory to evaluate the peak shape of 1,4-Dioxane and 1,4-Dioxane-d8. No adverse performance was observed and QC recoveries were in control. The data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS

Method 537 (modified): 13C4 PFBA Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: MW-4D (480-178350-1). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): 13C2 PFUnA, 13C2 PFD_oA, 13C2 PFDA, d3-NMeFOSAA and d5-NEtFOSAA Isotope Dilution Analyte (IDA) recoveries associated with the following sample are below the method recommended limit: PZ-7 (480-178350-5). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): Method 537 (modified): The "I" qualifier associated with sample PZ-7 (480-178350-5) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3510C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: MW-4D (480-178350-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: MW-4D

Lab Sample ID: 480-178350-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.27		0.23	0.11	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	1.2	J	4.2	0.96	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.2	J	1.7	0.70	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.4	J	1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.8		1.7	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	34		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.4		1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	15		1.7	0.62	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.78	J	1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	4.9		1.7	0.36	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.94	J	1.7	0.74	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-4S

Lab Sample ID: 480-178350-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		1.0	0.81	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	4.6	J	4.8	1.1	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.1	J	1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.9	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.3		1.9	0.93	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.86	J	1.9	0.60	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.6	J	1.9	0.83	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 480-178350-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.0		0.20	0.098	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	5.1		4.3	0.98	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.9		1.7	0.94	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.7		1.7	0.72	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.6		1.7	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.1		1.7	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.8		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.2		1.7	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.7	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.87	J	1.7	0.58	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.6		1.7	0.76	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 480-178350-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.62		0.19	0.096	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	5.4		4.5	1.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.2	J	1.8	0.98	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.5	J	1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.8	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.7		1.8	0.89	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.3	J	1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.8		1.8	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.82	J	1.8	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.98	J	1.8	0.61	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.6		1.8	0.79	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: PZ-7

Lab Sample ID: 480-178350-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	88		2.0	0.82	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	3.3		2.0	1.6	ug/L	2		8260C	Total/NA
Vinyl chloride	3.6		2.0	1.8	ug/L	2		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	1.1	J	4.7	1.1	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.78	J	1.9	0.78	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.77	J I	1.9	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.4		1.9	0.92	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.96	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.61	J	1.9	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.83	J	1.9	0.63	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.9		1.9	0.81	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.7	J	4.7	0.87	ng/L	1		537 (modified)	Total/NA
Lead	0.0055	J	0.010	0.0030	mg/L	1		6010C	Total/NA

Client Sample ID: IRM-SUMP

Lab Sample ID: 480-178350-6

No Detections.

Client Sample ID: FRB 111720

Lab Sample ID: 480-178350-7

No Detections.

Client Sample ID: TB 111720

Lab Sample ID: 480-178350-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: MW-4D

Lab Sample ID: 480-178350-1

Date Collected: 11/17/20 13:40

Matrix: Water

Date Received: 11/19/20 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.27		0.23	0.11	ug/L		11/23/20 09:08	11/24/20 15:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		15 - 110				11/23/20 09:08	11/24/20 15:56	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.2	J	4.2	0.96	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.92	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluorohexanoic acid (PFHxA)	1.2	J	1.7	0.70	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluoroheptanoic acid (PFHpA)	1.4	J	1.7	0.39	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluorooctanoic acid (PFOA)	7.8		1.7	0.83	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluorononanoic acid (PFNA)	34		1.7	0.49	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluorodecanoic acid (PFDA)	2.4		1.7	0.39	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluoroundecanoic acid (PFUnA)	15		1.7	0.62	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluorododecanoic acid (PFDoA)	0.78	J	1.7	0.39	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluorotridecanoic acid (PFTriA)	4.9		1.7	0.36	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.50	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.53	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.57	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.33	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluorooctanesulfonic acid (PFOS)	0.94	J	1.7	0.74	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.41	ng/L		11/25/20 09:49	11/26/20 10:16	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.48	ng/L		11/25/20 09:49	11/26/20 10:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	0.67	ng/L		11/25/20 09:49	11/26/20 10:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	0.79	ng/L		11/25/20 09:49	11/26/20 10:16	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.2	0.61	ng/L		11/25/20 09:49	11/26/20 10:16	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.56	ng/L		11/25/20 09:49	11/26/20 10:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	92		50 - 150				11/25/20 09:49	11/26/20 10:16	1
13C4 PFHpA	93		50 - 150				11/25/20 09:49	11/26/20 10:16	1
13C4 PFOA	84		50 - 150				11/25/20 09:49	11/26/20 10:16	1
13C4 PFOS	79		50 - 150				11/25/20 09:49	11/26/20 10:16	1
13C5 PFNA	82		50 - 150				11/25/20 09:49	11/26/20 10:16	1
13C4 PFBA	24	*5	25 - 150				11/25/20 09:49	11/26/20 10:16	1
13C2 PFHxA	86		50 - 150				11/25/20 09:49	11/26/20 10:16	1
13C2 PFDA	78		50 - 150				11/25/20 09:49	11/26/20 10:16	1
13C2 PFUnA	77		50 - 150				11/25/20 09:49	11/26/20 10:16	1
13C2 PFDoA	75		50 - 150				11/25/20 09:49	11/26/20 10:16	1
13C8 FOSA	81		25 - 150				11/25/20 09:49	11/26/20 10:16	1
13C5 PFPeA	79		25 - 150				11/25/20 09:49	11/26/20 10:16	1
13C2 PFTeDA	79		50 - 150				11/25/20 09:49	11/26/20 10:16	1
d3-NMeFOSAA	64		50 - 150				11/25/20 09:49	11/26/20 10:16	1
d5-NEtFOSAA	65		50 - 150				11/25/20 09:49	11/26/20 10:16	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: MW-4D

Date Collected: 11/17/20 13:40

Date Received: 11/19/20 08:00

Lab Sample ID: 480-178350-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	91		25 - 150	11/25/20 09:49	11/26/20 10:16	1
M2-8:2 FTS	75		25 - 150	11/25/20 09:49	11/26/20 10:16	1
13C3 PFBS	91		50 - 150	11/25/20 09:49	11/26/20 10:16	1

Client Sample ID: MW-4S

Date Collected: 11/17/20 11:00

Date Received: 11/19/20 08:00

Lab Sample ID: 480-178350-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/25/20 12:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/25/20 12:23	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/25/20 12:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/25/20 12:23	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/25/20 12:23	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/25/20 12:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/25/20 12:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/25/20 12:23	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/25/20 12:23	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/25/20 12:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/25/20 12:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/25/20 12:23	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/25/20 12:23	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/25/20 12:23	1
2-Hexanone	ND		5.0	1.2	ug/L			11/25/20 12:23	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/25/20 12:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/25/20 12:23	1
Acetone	ND		10	3.0	ug/L			11/25/20 12:23	1
Benzene	ND		1.0	0.41	ug/L			11/25/20 12:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/25/20 12:23	1
Bromoform	ND		1.0	0.26	ug/L			11/25/20 12:23	1
Bromomethane	ND		1.0	0.69	ug/L			11/25/20 12:23	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/25/20 12:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/25/20 12:23	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/25/20 12:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/25/20 12:23	1
Chloroethane	ND		1.0	0.32	ug/L			11/25/20 12:23	1
Chloroform	ND		1.0	0.34	ug/L			11/25/20 12:23	1
Chloromethane	ND		1.0	0.35	ug/L			11/25/20 12:23	1
cis-1,2-Dichloroethene	2.0		1.0	0.81	ug/L			11/25/20 12:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/25/20 12:23	1
Cyclohexane	ND		1.0	0.18	ug/L			11/25/20 12:23	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/25/20 12:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/25/20 12:23	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/25/20 12:23	1
Methyl acetate	ND		2.5	1.3	ug/L			11/25/20 12:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/25/20 12:23	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/25/20 12:23	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/25/20 12:23	1
Styrene	ND		1.0	0.73	ug/L			11/25/20 12:23	1

Euofins TestAmerica, Buffalo

Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: MW-4S

Lab Sample ID: 480-178350-2

Date Collected: 11/17/20 11:00

Matrix: Water

Date Received: 11/19/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			11/25/20 12:23	1
Toluene	ND		1.0	0.51	ug/L			11/25/20 12:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/25/20 12:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/25/20 12:23	1
Trichloroethene	ND		1.0	0.46	ug/L			11/25/20 12:23	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/25/20 12:23	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/25/20 12:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/25/20 12:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120					11/25/20 12:23	1
Toluene-d8 (Surr)	98		80 - 120					11/25/20 12:23	1
4-Bromofluorobenzene (Surr)	96		73 - 120					11/25/20 12:23	1
Dibromofluoromethane (Surr)	99		75 - 123					11/25/20 12:23	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.21	0.11	ug/L		11/23/20 09:08	11/24/20 16:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	29		15 - 110				11/23/20 09:08	11/24/20 16:19	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.6	J	4.8	1.1	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	1.0	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluorohexanoic acid (PFHxA)	1.1	J	1.9	0.79	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.9	0.44	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluorooctanoic acid (PFOA)	7.3		1.9	0.93	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.55	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.44	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.69	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.44	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.41	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.56	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluorobutanesulfonic acid (PFBS)	0.86	J	1.9	0.60	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.64	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.37	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluorooctanesulfonic acid (PFOS)	1.6	J	1.9	0.83	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.46	ng/L		11/25/20 09:49	11/26/20 10:24	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.54	ng/L		11/25/20 09:49	11/26/20 10:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8	0.75	ng/L		11/25/20 09:49	11/26/20 10:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.8	0.89	ng/L		11/25/20 09:49	11/26/20 10:24	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.8	0.69	ng/L		11/25/20 09:49	11/26/20 10:24	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9	0.63	ng/L		11/25/20 09:49	11/26/20 10:24	1

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Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: MW-4S

Lab Sample ID: 480-178350-2

Date Collected: 11/17/20 11:00

Matrix: Water

Date Received: 11/19/20 08:00

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	91		50 - 150	11/25/20 09:49	11/26/20 10:24	1
13C4 PFHpA	90		50 - 150	11/25/20 09:49	11/26/20 10:24	1
13C4 PFOA	84		50 - 150	11/25/20 09:49	11/26/20 10:24	1
13C4 PFOS	92		50 - 150	11/25/20 09:49	11/26/20 10:24	1
13C5 PFNA	87		50 - 150	11/25/20 09:49	11/26/20 10:24	1
13C4 PFBA	57		25 - 150	11/25/20 09:49	11/26/20 10:24	1
13C2 PFHxA	88		50 - 150	11/25/20 09:49	11/26/20 10:24	1
13C2 PFDA	86		50 - 150	11/25/20 09:49	11/26/20 10:24	1
13C2 PFUnA	90		50 - 150	11/25/20 09:49	11/26/20 10:24	1
13C2 PFDoA	75		50 - 150	11/25/20 09:49	11/26/20 10:24	1
13C8 FOSA	79		25 - 150	11/25/20 09:49	11/26/20 10:24	1
13C5 PFPeA	87		25 - 150	11/25/20 09:49	11/26/20 10:24	1
13C2 PFTeDA	78		50 - 150	11/25/20 09:49	11/26/20 10:24	1
d3-NMeFOSAA	72		50 - 150	11/25/20 09:49	11/26/20 10:24	1
d5-NEFOSAA	75		50 - 150	11/25/20 09:49	11/26/20 10:24	1
M2-6:2 FTS	96		25 - 150	11/25/20 09:49	11/26/20 10:24	1
M2-8:2 FTS	78		25 - 150	11/25/20 09:49	11/26/20 10:24	1
13C3 PFBS	89		50 - 150	11/25/20 09:49	11/26/20 10:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		11/30/20 10:55	11/30/20 20:50	1

Client Sample ID: MW-2

Lab Sample ID: 480-178350-3

Date Collected: 11/17/20 15:00

Matrix: Water

Date Received: 11/19/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/25/20 12:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/25/20 12:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/25/20 12:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/25/20 12:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/25/20 12:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/25/20 12:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/25/20 12:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/25/20 12:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/25/20 12:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/25/20 12:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/25/20 12:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/25/20 12:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/25/20 12:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/25/20 12:46	1
2-Hexanone	ND		5.0	1.2	ug/L			11/25/20 12:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/25/20 12:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/25/20 12:46	1
Acetone	ND		10	3.0	ug/L			11/25/20 12:46	1
Benzene	ND		1.0	0.41	ug/L			11/25/20 12:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/25/20 12:46	1
Bromoform	ND		1.0	0.26	ug/L			11/25/20 12:46	1
Bromomethane	ND		1.0	0.69	ug/L			11/25/20 12:46	1

Eurolins TestAmerica, Buffalo

Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: MW-2
Date Collected: 11/17/20 15:00
Date Received: 11/19/20 08:00

Lab Sample ID: 480-178350-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.19	ug/L			11/25/20 12:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/25/20 12:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/25/20 12:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/25/20 12:46	1
Chloroethane	ND		1.0	0.32	ug/L			11/25/20 12:46	1
Chloroform	ND		1.0	0.34	ug/L			11/25/20 12:46	1
Chloromethane	ND		1.0	0.35	ug/L			11/25/20 12:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/25/20 12:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/25/20 12:46	1
Cyclohexane	ND		1.0	0.18	ug/L			11/25/20 12:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/25/20 12:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/25/20 12:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/25/20 12:46	1
Methyl acetate	ND		2.5	1.3	ug/L			11/25/20 12:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/25/20 12:46	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/25/20 12:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/25/20 12:46	1
Styrene	ND		1.0	0.73	ug/L			11/25/20 12:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/25/20 12:46	1
Toluene	ND		1.0	0.51	ug/L			11/25/20 12:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/25/20 12:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/25/20 12:46	1
Trichloroethene	ND		1.0	0.46	ug/L			11/25/20 12:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/25/20 12:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/25/20 12:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/25/20 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		11/25/20 12:46	1
Toluene-d8 (Surr)	97		80 - 120		11/25/20 12:46	1
4-Bromofluorobenzene (Surr)	93		73 - 120		11/25/20 12:46	1
Dibromofluoromethane (Surr)	99		75 - 123		11/25/20 12:46	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0		0.20	0.098	ug/L		11/23/20 09:08	11/26/20 01:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	29		15 - 110	11/23/20 09:08	11/26/20 01:42	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.1		4.3	0.98	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluoropentanoic acid (PFPeA)	2.9		1.7	0.94	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluorohexanoic acid (PFHxA)	3.7		1.7	0.72	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluoroheptanoic acid (PFHpA)	2.6		1.7	0.40	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluorooctanoic acid (PFOA)	7.1		1.7	0.85	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluorononanoic acid (PFNA)	1.8		1.7	0.50	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluorodecanoic acid (PFDA)	2.2		1.7	0.40	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.64	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.40	ng/L		11/25/20 09:49	11/26/20 10:33	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: MW-2
Date Collected: 11/17/20 15:00
Date Received: 11/19/20 08:00

Lab Sample ID: 480-178350-3
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.51	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.7	0.55	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluorohexanesulfonic acid (PFHxS)	0.87	J	1.7	0.58	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.34	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluorooctanesulfonic acid (PFOS)	6.6		1.7	0.76	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.42	ng/L		11/25/20 09:49	11/26/20 10:33	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.50	ng/L		11/25/20 09:49	11/26/20 10:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.69	ng/L		11/25/20 09:49	11/26/20 10:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.81	ng/L		11/25/20 09:49	11/26/20 10:33	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.3	0.63	ng/L		11/25/20 09:49	11/26/20 10:33	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.57	ng/L		11/25/20 09:49	11/26/20 10:33	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	87		50 - 150				11/25/20 09:49	11/26/20 10:33	1
13C4 PFHpA	89		50 - 150				11/25/20 09:49	11/26/20 10:33	1
13C4 PFOA	79		50 - 150				11/25/20 09:49	11/26/20 10:33	1
13C4 PFOS	70		50 - 150				11/25/20 09:49	11/26/20 10:33	1
13C5 PFNA	73		50 - 150				11/25/20 09:49	11/26/20 10:33	1
13C4 PFBA	67		25 - 150				11/25/20 09:49	11/26/20 10:33	1
13C2 PFHxA	84		50 - 150				11/25/20 09:49	11/26/20 10:33	1
13C2 PFDA	63		50 - 150				11/25/20 09:49	11/26/20 10:33	1
13C2 PFUnA	55		50 - 150				11/25/20 09:49	11/26/20 10:33	1
13C2 PFDoA	59		50 - 150				11/25/20 09:49	11/26/20 10:33	1
13C8 FOSA	66		25 - 150				11/25/20 09:49	11/26/20 10:33	1
13C5 PFPeA	87		25 - 150				11/25/20 09:49	11/26/20 10:33	1
13C2 PFTeDA	78		50 - 150				11/25/20 09:49	11/26/20 10:33	1
d3-NMeFOSAA	54		50 - 150				11/25/20 09:49	11/26/20 10:33	1
d5-NEtFOSAA	59		50 - 150				11/25/20 09:49	11/26/20 10:33	1
M2-6:2 FTS	92		25 - 150				11/25/20 09:49	11/26/20 10:33	1
M2-8:2 FTS	62		25 - 150				11/25/20 09:49	11/26/20 10:33	1
13C3 PFBS	90		50 - 150				11/25/20 09:49	11/26/20 10:33	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		11/30/20 10:55	11/30/20 20:54	1

Client Sample ID: MW-3
Date Collected: 11/17/20 16:00
Date Received: 11/19/20 08:00

Lab Sample ID: 480-178350-4
Matrix: Water

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.62		0.19	0.096	ug/L		11/23/20 09:08	11/24/20 17:07	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: MW-3
Date Collected: 11/17/20 16:00
Date Received: 11/19/20 08:00

Lab Sample ID: 480-178350-4
Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110	11/23/20 09:08	11/24/20 17:07	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.4		4.5	1.0	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluoropentanoic acid (PFPeA)	1.2	J	1.8	0.98	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluorohexanoic acid (PFHxA)	1.5	J	1.8	0.75	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.8	0.42	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluorooctanoic acid (PFOA)	3.7		1.8	0.89	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluorononanoic acid (PFNA)	1.3	J	1.8	0.53	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluorodecanoic acid (PFDA)	1.8		1.8	0.42	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.66	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.42	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.39	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.54	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluorobutanesulfonic acid (PFBS)	0.82	J	1.8	0.57	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluorohexanesulfonic acid (PFHxS)	0.98	J	1.8	0.61	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.35	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluorooctanesulfonic acid (PFOS)	4.6		1.8	0.79	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.44	ng/L		11/25/20 09:49	11/26/20 10:41	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.52	ng/L		11/25/20 09:49	11/26/20 10:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.72	ng/L		11/25/20 09:49	11/26/20 10:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	0.84	ng/L		11/25/20 09:49	11/26/20 10:41	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.5	0.65	ng/L		11/25/20 09:49	11/26/20 10:41	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8	0.60	ng/L		11/25/20 09:49	11/26/20 10:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	90		50 - 150	11/25/20 09:49	11/26/20 10:41	1
13C4 PFHpA	91		50 - 150	11/25/20 09:49	11/26/20 10:41	1
13C4 PFOA	83		50 - 150	11/25/20 09:49	11/26/20 10:41	1
13C4 PFOS	73		50 - 150	11/25/20 09:49	11/26/20 10:41	1
13C5 PFNA	76		50 - 150	11/25/20 09:49	11/26/20 10:41	1
13C4 PFBA	64		25 - 150	11/25/20 09:49	11/26/20 10:41	1
13C2 PFHxA	88		50 - 150	11/25/20 09:49	11/26/20 10:41	1
13C2 PFDA	57		50 - 150	11/25/20 09:49	11/26/20 10:41	1
13C2 PFUnA	55		50 - 150	11/25/20 09:49	11/26/20 10:41	1
13C2 PFDoA	56		50 - 150	11/25/20 09:49	11/26/20 10:41	1
13C8 FOSA	62		25 - 150	11/25/20 09:49	11/26/20 10:41	1
13C5 PFPeA	88		25 - 150	11/25/20 09:49	11/26/20 10:41	1
13C2 PFTeDA	69		50 - 150	11/25/20 09:49	11/26/20 10:41	1
d3-NMeFOSAA	55		50 - 150	11/25/20 09:49	11/26/20 10:41	1
d5-NEtFOSAA	58		50 - 150	11/25/20 09:49	11/26/20 10:41	1
M2-6:2 FTS	100		25 - 150	11/25/20 09:49	11/26/20 10:41	1
M2-8:2 FTS	65		25 - 150	11/25/20 09:49	11/26/20 10:41	1
13C3 PFBS	95		50 - 150	11/25/20 09:49	11/26/20 10:41	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: PZ-7

Lab Sample ID: 480-178350-5

Date Collected: 11/17/20 13:00

Matrix: Water

Date Received: 11/19/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			11/25/20 13:09	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			11/25/20 13:09	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			11/25/20 13:09	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			11/25/20 13:09	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			11/25/20 13:09	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			11/25/20 13:09	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			11/25/20 13:09	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			11/25/20 13:09	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			11/25/20 13:09	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			11/25/20 13:09	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			11/25/20 13:09	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			11/25/20 13:09	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			11/25/20 13:09	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			11/25/20 13:09	2
2-Hexanone	ND		10	2.5	ug/L			11/25/20 13:09	2
2-Butanone (MEK)	ND		20	2.6	ug/L			11/25/20 13:09	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			11/25/20 13:09	2
Acetone	ND		20	6.0	ug/L			11/25/20 13:09	2
Benzene	88		2.0	0.82	ug/L			11/25/20 13:09	2
Bromodichloromethane	ND		2.0	0.78	ug/L			11/25/20 13:09	2
Bromoform	ND		2.0	0.52	ug/L			11/25/20 13:09	2
Bromomethane	ND		2.0	1.4	ug/L			11/25/20 13:09	2
Carbon disulfide	ND		2.0	0.38	ug/L			11/25/20 13:09	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			11/25/20 13:09	2
Chlorobenzene	ND		2.0	1.5	ug/L			11/25/20 13:09	2
Dibromochloromethane	ND		2.0	0.64	ug/L			11/25/20 13:09	2
Chloroethane	ND		2.0	0.64	ug/L			11/25/20 13:09	2
Chloroform	ND		2.0	0.68	ug/L			11/25/20 13:09	2
Chloromethane	ND		2.0	0.70	ug/L			11/25/20 13:09	2
cis-1,2-Dichloroethene	3.3		2.0	1.6	ug/L			11/25/20 13:09	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			11/25/20 13:09	2
Cyclohexane	ND		2.0	0.36	ug/L			11/25/20 13:09	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			11/25/20 13:09	2
Ethylbenzene	ND		2.0	1.5	ug/L			11/25/20 13:09	2
Isopropylbenzene	ND		2.0	1.6	ug/L			11/25/20 13:09	2
Methyl acetate	ND		5.0	2.6	ug/L			11/25/20 13:09	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			11/25/20 13:09	2
Methylcyclohexane	ND		2.0	0.32	ug/L			11/25/20 13:09	2
Methylene Chloride	ND		2.0	0.88	ug/L			11/25/20 13:09	2
Styrene	ND		2.0	1.5	ug/L			11/25/20 13:09	2
Tetrachloroethene	ND		2.0	0.72	ug/L			11/25/20 13:09	2
Toluene	ND		2.0	1.0	ug/L			11/25/20 13:09	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			11/25/20 13:09	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			11/25/20 13:09	2
Trichloroethene	ND		2.0	0.92	ug/L			11/25/20 13:09	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			11/25/20 13:09	2
Vinyl chloride	3.6		2.0	1.8	ug/L			11/25/20 13:09	2
Xylenes, Total	ND		4.0	1.3	ug/L			11/25/20 13:09	2

Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: PZ-7
Date Collected: 11/17/20 13:00
Date Received: 11/19/20 08:00

Lab Sample ID: 480-178350-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		11/25/20 13:09	2
Toluene-d8 (Surr)	97		80 - 120		11/25/20 13:09	2
4-Bromofluorobenzene (Surr)	92		73 - 120		11/25/20 13:09	2
Dibromofluoromethane (Surr)	100		75 - 123		11/25/20 13:09	2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.1	J	4.7	1.1	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	1.0	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluorohexanoic acid (PFHxA)	0.78	J	1.9	0.78	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluoroheptanoic acid (PFHpA)	0.77	J I	1.9	0.43	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluorooctanoic acid (PFOA)	7.4		1.9	0.92	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluorononanoic acid (PFNA)	0.96	J	1.9	0.54	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluorodecanoic acid (PFDA)	0.61	J	1.9	0.43	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.68	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.43	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.40	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.55	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.59	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluorohexanesulfonic acid (PFHxS)	0.83	J	1.9	0.63	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.36	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluorooctanesulfonic acid (PFOS)	6.9		1.9	0.81	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.45	ng/L		11/25/20 09:49	11/26/20 10:49	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.53	ng/L		11/25/20 09:49	11/26/20 10:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	0.74	ng/L		11/25/20 09:49	11/26/20 10:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.7	J	4.7	0.87	ng/L		11/25/20 09:49	11/26/20 10:49	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.7	0.67	ng/L		11/25/20 09:49	11/26/20 10:49	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9	0.62	ng/L		11/25/20 09:49	11/26/20 10:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	91		50 - 150	11/25/20 09:49	11/26/20 10:49	1
13C4 PFHpA	89		50 - 150	11/25/20 09:49	11/26/20 10:49	1
13C4 PFOA	80		50 - 150	11/25/20 09:49	11/26/20 10:49	1
13C4 PFOS	57		50 - 150	11/25/20 09:49	11/26/20 10:49	1
13C5 PFNA	68		50 - 150	11/25/20 09:49	11/26/20 10:49	1
13C4 PFBA	63		25 - 150	11/25/20 09:49	11/26/20 10:49	1
13C2 PFHxA	85		50 - 150	11/25/20 09:49	11/26/20 10:49	1
13C2 PFDA	44	*5	50 - 150	11/25/20 09:49	11/26/20 10:49	1
13C2 PFUnA	38	*5	50 - 150	11/25/20 09:49	11/26/20 10:49	1
13C2 PFDoA	43	*5	50 - 150	11/25/20 09:49	11/26/20 10:49	1
13C8 FOSA	49		25 - 150	11/25/20 09:49	11/26/20 10:49	1
13C5 PFPeA	85		25 - 150	11/25/20 09:49	11/26/20 10:49	1
13C2 PFTeDA	61		50 - 150	11/25/20 09:49	11/26/20 10:49	1
d3-NMeFOSAA	45	*5	50 - 150	11/25/20 09:49	11/26/20 10:49	1
d5-NEtFOSAA	39	*5	50 - 150	11/25/20 09:49	11/26/20 10:49	1
M2-6:2 FTS	99		25 - 150	11/25/20 09:49	11/26/20 10:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: PZ-7

Lab Sample ID: 480-178350-5

Date Collected: 11/17/20 13:00

Matrix: Water

Date Received: 11/19/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	45		25 - 150	11/25/20 09:49	11/26/20 10:49	1
13C3 PFBS	90		50 - 150	11/25/20 09:49	11/26/20 10:49	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0055	J	0.010	0.0030	mg/L		11/30/20 10:55	11/30/20 20:58	1

Client Sample ID: IRM-SUMP

Lab Sample ID: 480-178350-6

Date Collected: 11/17/20 16:30

Matrix: Water

Date Received: 11/19/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/25/20 13:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/25/20 13:40	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/25/20 13:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/25/20 13:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/25/20 13:40	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/25/20 13:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/25/20 13:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/25/20 13:40	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/25/20 13:40	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/25/20 13:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/25/20 13:40	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/25/20 13:40	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/25/20 13:40	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/25/20 13:40	1
2-Hexanone	ND		5.0	1.2	ug/L			11/25/20 13:40	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/25/20 13:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/25/20 13:40	1
Acetone	ND		10	3.0	ug/L			11/25/20 13:40	1
Benzene	ND		1.0	0.41	ug/L			11/25/20 13:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/25/20 13:40	1
Bromoform	ND		1.0	0.26	ug/L			11/25/20 13:40	1
Bromomethane	ND		1.0	0.69	ug/L			11/25/20 13:40	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/25/20 13:40	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/25/20 13:40	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/25/20 13:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/25/20 13:40	1
Chloroethane	ND		1.0	0.32	ug/L			11/25/20 13:40	1
Chloroform	ND		1.0	0.34	ug/L			11/25/20 13:40	1
Chloromethane	ND		1.0	0.35	ug/L			11/25/20 13:40	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/25/20 13:40	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/25/20 13:40	1
Cyclohexane	ND		1.0	0.18	ug/L			11/25/20 13:40	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/25/20 13:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/25/20 13:40	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/25/20 13:40	1
Methyl acetate	ND		2.5	1.3	ug/L			11/25/20 13:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/25/20 13:40	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: IRM-SUMP

Lab Sample ID: 480-178350-6

Date Collected: 11/17/20 16:30

Matrix: Water

Date Received: 11/19/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND		1.0	0.16	ug/L			11/25/20 13:40	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/25/20 13:40	1
Styrene	ND		1.0	0.73	ug/L			11/25/20 13:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/25/20 13:40	1
Toluene	ND		1.0	0.51	ug/L			11/25/20 13:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/25/20 13:40	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/25/20 13:40	1
Trichloroethene	ND		1.0	0.46	ug/L			11/25/20 13:40	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/25/20 13:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/25/20 13:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/25/20 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120					11/25/20 13:40	1
Toluene-d8 (Surr)	96		80 - 120					11/25/20 13:40	1
4-Bromofluorobenzene (Surr)	92		73 - 120					11/25/20 13:40	1
Dibromofluoromethane (Surr)	96		75 - 123					11/25/20 13:40	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		11/30/20 10:55	11/30/20 21:13	1

Client Sample ID: FRB 111720

Lab Sample ID: 480-178350-7

Date Collected: 11/17/20 00:00

Matrix: Water

Date Received: 11/19/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4	1.0	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.96	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.74	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.41	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.87	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.51	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.41	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.65	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.41	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.38	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.52	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.56	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.59	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.35	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.77	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.43	ng/L		11/25/20 09:49	11/26/20 10:58	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.8	0.51	ng/L		11/25/20 09:49	11/26/20 10:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	0.70	ng/L		11/25/20 09:49	11/26/20 10:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	0.83	ng/L		11/25/20 09:49	11/26/20 10:58	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: FRB 111720

Lab Sample ID: 480-178350-7

Date Collected: 11/17/20 00:00

Matrix: Water

Date Received: 11/19/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.4	0.64	ng/L		11/25/20 09:49	11/26/20 10:58	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8	0.59	ng/L		11/25/20 09:49	11/26/20 10:58	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	95		50 - 150				11/25/20 09:49	11/26/20 10:58	1
13C4 PFHpA	94		50 - 150				11/25/20 09:49	11/26/20 10:58	1
13C4 PFOA	85		50 - 150				11/25/20 09:49	11/26/20 10:58	1
13C4 PFOS	97		50 - 150				11/25/20 09:49	11/26/20 10:58	1
13C5 PFNA	89		50 - 150				11/25/20 09:49	11/26/20 10:58	1
13C4 PFBA	89		25 - 150				11/25/20 09:49	11/26/20 10:58	1
13C2 PFHxA	93		50 - 150				11/25/20 09:49	11/26/20 10:58	1
13C2 PFDA	98		50 - 150				11/25/20 09:49	11/26/20 10:58	1
13C2 PFUnA	97		50 - 150				11/25/20 09:49	11/26/20 10:58	1
13C2 PFDoA	99		50 - 150				11/25/20 09:49	11/26/20 10:58	1
13C8 FOSA	71		25 - 150				11/25/20 09:49	11/26/20 10:58	1
13C5 PFPeA	100		25 - 150				11/25/20 09:49	11/26/20 10:58	1
13C2 PFTeDA	87		50 - 150				11/25/20 09:49	11/26/20 10:58	1
d3-NMeFOSAA	91		50 - 150				11/25/20 09:49	11/26/20 10:58	1
d5-NEtFOSAA	107		50 - 150				11/25/20 09:49	11/26/20 10:58	1
M2-6:2 FTS	93		25 - 150				11/25/20 09:49	11/26/20 10:58	1
M2-8:2 FTS	91		25 - 150				11/25/20 09:49	11/26/20 10:58	1
13C3 PFBS	95		50 - 150				11/25/20 09:49	11/26/20 10:58	1

Client Sample ID: TB 111720

Lab Sample ID: 480-178350-8

Date Collected: 11/17/20 00:00

Matrix: Water

Date Received: 11/19/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/25/20 14:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/25/20 14:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/25/20 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/25/20 14:27	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/25/20 14:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/25/20 14:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/25/20 14:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/25/20 14:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/25/20 14:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/25/20 14:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/25/20 14:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/25/20 14:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/25/20 14:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/25/20 14:27	1
2-Hexanone	ND		5.0	1.2	ug/L			11/25/20 14:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/25/20 14:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/25/20 14:27	1
Acetone	ND		10	3.0	ug/L			11/25/20 14:27	1
Benzene	ND		1.0	0.41	ug/L			11/25/20 14:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/25/20 14:27	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: TB 111720

Lab Sample ID: 480-178350-8

Date Collected: 11/17/20 00:00

Matrix: Water

Date Received: 11/19/20 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.26	ug/L			11/25/20 14:27	1
Bromomethane	ND		1.0	0.69	ug/L			11/25/20 14:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/25/20 14:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/25/20 14:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/25/20 14:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/25/20 14:27	1
Chloroethane	ND		1.0	0.32	ug/L			11/25/20 14:27	1
Chloroform	ND		1.0	0.34	ug/L			11/25/20 14:27	1
Chloromethane	ND		1.0	0.35	ug/L			11/25/20 14:27	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/25/20 14:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/25/20 14:27	1
Cyclohexane	ND		1.0	0.18	ug/L			11/25/20 14:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/25/20 14:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/25/20 14:27	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/25/20 14:27	1
Methyl acetate	ND		2.5	1.3	ug/L			11/25/20 14:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/25/20 14:27	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/25/20 14:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/25/20 14:27	1
Styrene	ND		1.0	0.73	ug/L			11/25/20 14:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/25/20 14:27	1
Toluene	ND		1.0	0.51	ug/L			11/25/20 14:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/25/20 14:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/25/20 14:27	1
Trichloroethene	ND		1.0	0.46	ug/L			11/25/20 14:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/25/20 14:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/25/20 14:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/25/20 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		11/25/20 14:27	1
Toluene-d8 (Surr)	105		80 - 120		11/25/20 14:27	1
4-Bromofluorobenzene (Surr)	103		73 - 120		11/25/20 14:27	1
Dibromofluoromethane (Surr)	120		75 - 123		11/25/20 14:27	1

Surrogate Summary

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	TOL	BFB	DBFM
		(77-120)	(80-120)	(73-120)	(75-123)
480-178350-2	MW-4S	107	98	96	99
480-178350-3	MW-2	109	97	93	99
480-178350-5	PZ-7	106	97	92	100
480-178350-6	IRM-SUMP	106	96	92	96
480-178350-8	TB 111720	115	105	103	120
LCS 480-560826/5	Lab Control Sample	102	101	100	99
LCS 480-560877/5	Lab Control Sample	106	104	105	107
MB 480-560826/7	Method Blank	107	102	97	104
MB 480-560877/7	Method Blank	108	103	106	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (15-110)
480-178350-1	MW-4D	30
480-178350-2	MW-4S	29
480-178350-3	MW-2	29
480-178350-4	MW-3	28
LCS 480-560470/2-A	Lab Control Sample	29
MB 480-560470/1-A	Method Blank	28

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFHxS (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFBA (25-150)	PFHxA (50-150)	PFDA (50-150)
480-178350-1	MW-4D	92	93	84	79	82	24 *5	86	78
480-178350-2	MW-4S	91	90	84	92	87	57	88	86
480-178350-3	MW-2	87	89	79	70	73	67	84	63
480-178350-4	MW-3	90	91	83	73	76	64	88	57
480-178350-5	PZ-7	91	89	80	57	68	63	85	44 *5
480-178350-7	FRB 111720	95	94	85	97	89	89	93	98
LCS 200-161510/2-A	Lab Control Sample	100	98	88	99	91	97	98	97
MB 200-161510/1-A	Method Blank	95	95	86	98	89	95	96	100

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDoA (50-150)	PFOSA (25-150)	PFPeA (25-150)	PFTDA (50-150)	d3NMFOs (50-150)	d5NEFOs (50-150)	M262FTS (25-150)
480-178350-1	MW-4D	77	75	81	79	79	64	65	91
480-178350-2	MW-4S	90	75	79	87	78	72	75	96
480-178350-3	MW-2	55	59	66	87	78	54	59	92
480-178350-4	MW-3	55	56	62	88	69	55	58	100
480-178350-5	PZ-7	38 *5	43 *5	49	85	61	45 *5	39 *5	99
480-178350-7	FRB 111720	97	99	71	100	87	91	107	93
LCS 200-161510/2-A	Lab Control Sample	106	99	79	100	94	91	90	99
MB 200-161510/1-A	Method Blank	98	91	71	95	77	90	104	98

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M282FTS (25-150)	C3PFBS (50-150)
480-178350-1	MW-4D	75	91
480-178350-2	MW-4S	78	89
480-178350-3	MW-2	62	90
480-178350-4	MW-3	65	95
480-178350-5	PZ-7	45	90
480-178350-7	FRB 111720	91	95
LCS 200-161510/2-A	Lab Control Sample	99	99
MB 200-161510/1-A	Method Blank	98	98

Surrogate Legend

PFHxS = 18O2 PFHxS

C4PFHA = 13C4 PFHpA

Isotope Dilution Summary

Job ID: 480-178350-1

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFOSA = 13C8 FOSA
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
C3PFBS = 13C3 PFBS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-560826/7
Matrix: Water
Analysis Batch: 560826

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/25/20 09:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/25/20 09:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/25/20 09:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/25/20 09:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/25/20 09:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/25/20 09:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/25/20 09:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/25/20 09:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/25/20 09:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/25/20 09:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/25/20 09:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/25/20 09:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/25/20 09:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/25/20 09:35	1
2-Hexanone	ND		5.0	1.2	ug/L			11/25/20 09:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/25/20 09:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/25/20 09:35	1
Acetone	ND		10	3.0	ug/L			11/25/20 09:35	1
Benzene	ND		1.0	0.41	ug/L			11/25/20 09:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/25/20 09:35	1
Bromoform	ND		1.0	0.26	ug/L			11/25/20 09:35	1
Bromomethane	ND		1.0	0.69	ug/L			11/25/20 09:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/25/20 09:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/25/20 09:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/25/20 09:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/25/20 09:35	1
Chloroethane	ND		1.0	0.32	ug/L			11/25/20 09:35	1
Chloroform	ND		1.0	0.34	ug/L			11/25/20 09:35	1
Chloromethane	ND		1.0	0.35	ug/L			11/25/20 09:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/25/20 09:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/25/20 09:35	1
Cyclohexane	ND		1.0	0.18	ug/L			11/25/20 09:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/25/20 09:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/25/20 09:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/25/20 09:35	1
Methyl acetate	ND		2.5	1.3	ug/L			11/25/20 09:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/25/20 09:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/25/20 09:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/25/20 09:35	1
Styrene	ND		1.0	0.73	ug/L			11/25/20 09:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/25/20 09:35	1
Toluene	ND		1.0	0.51	ug/L			11/25/20 09:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/25/20 09:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/25/20 09:35	1
Trichloroethene	ND		1.0	0.46	ug/L			11/25/20 09:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/25/20 09:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/25/20 09:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/25/20 09:35	1

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QC Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-560826/7
Matrix: Water
Analysis Batch: 560826

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		11/25/20 09:35	1
Toluene-d8 (Surr)	102		80 - 120		11/25/20 09:35	1
4-Bromofluorobenzene (Surr)	97		73 - 120		11/25/20 09:35	1
Dibromofluoromethane (Surr)	104		75 - 123		11/25/20 09:35	1

Lab Sample ID: LCS 480-560826/5
Matrix: Water
Analysis Batch: 560826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1,1-Trichloroethane	25.0	27.0		ug/L		108	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.8		ug/L		99	76 - 120
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.1		ug/L		113	61 - 148
1,1-Dichloroethane	25.0	25.1		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	27.8		ug/L		111	66 - 127
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.0		ug/L		104	56 - 134
1,2-Dibromoethane	25.0	24.9		ug/L		100	77 - 120
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	80 - 124
1,2-Dichloroethane	25.0	25.6		ug/L		102	75 - 120
1,2-Dichloropropane	25.0	25.3		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	77 - 120
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	80 - 120
2-Hexanone	125	139		ug/L		111	65 - 127
2-Butanone (MEK)	125	147		ug/L		118	57 - 140
4-Methyl-2-pentanone (MIBK)	125	139		ug/L		111	71 - 125
Acetone	125	152		ug/L		121	56 - 142
Benzene	25.0	25.4		ug/L		102	71 - 124
Bromodichloromethane	25.0	24.9		ug/L		100	80 - 122
Bromoform	25.0	24.1		ug/L		96	61 - 132
Bromomethane	25.0	21.7		ug/L		87	55 - 144
Carbon disulfide	25.0	28.4		ug/L		114	59 - 134
Carbon tetrachloride	25.0	27.4		ug/L		110	72 - 134
Chlorobenzene	25.0	26.5		ug/L		106	80 - 120
Dibromochloromethane	25.0	26.6		ug/L		106	75 - 125
Chloroethane	25.0	22.4		ug/L		90	69 - 136
Chloroform	25.0	24.3		ug/L		97	73 - 127
Chloromethane	25.0	25.7		ug/L		103	68 - 124
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	74 - 124
Cyclohexane	25.0	26.2		ug/L		105	59 - 135
Dichlorodifluoromethane	25.0	28.3		ug/L		113	59 - 135
Ethylbenzene	25.0	26.5		ug/L		106	77 - 123
Isopropylbenzene	25.0	27.4		ug/L		110	77 - 122
Methyl acetate	50.0	55.8		ug/L		112	74 - 133
Methyl tert-butyl ether	25.0	25.1		ug/L		100	77 - 120
Methylcyclohexane	25.0	27.7		ug/L		111	68 - 134

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QC Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-560826/5
Matrix: Water
Analysis Batch: 560826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	24.8		ug/L		99	75 - 124
Styrene	25.0	27.0		ug/L		108	80 - 120
Tetrachloroethene	25.0	27.7		ug/L		111	74 - 122
Toluene	25.0	26.7		ug/L		107	80 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
Trichloroethene	25.0	24.7		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	28.2		ug/L		113	62 - 150
Vinyl chloride	25.0	25.0		ug/L		100	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123

Lab Sample ID: MB 480-560877/7
Matrix: Water
Analysis Batch: 560877

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/25/20 12:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/25/20 12:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/25/20 12:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/25/20 12:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/25/20 12:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/25/20 12:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/25/20 12:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/25/20 12:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/25/20 12:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/25/20 12:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/25/20 12:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/25/20 12:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/25/20 12:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/25/20 12:43	1
2-Hexanone	ND		5.0	1.2	ug/L			11/25/20 12:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/25/20 12:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/25/20 12:43	1
Acetone	ND		10	3.0	ug/L			11/25/20 12:43	1
Benzene	ND		1.0	0.41	ug/L			11/25/20 12:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/25/20 12:43	1
Bromoform	ND		1.0	0.26	ug/L			11/25/20 12:43	1
Bromomethane	ND		1.0	0.69	ug/L			11/25/20 12:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/25/20 12:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/25/20 12:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/25/20 12:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/25/20 12:43	1
Chloroethane	ND		1.0	0.32	ug/L			11/25/20 12:43	1
Chloroform	ND		1.0	0.34	ug/L			11/25/20 12:43	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-560877/7
Matrix: Water
Analysis Batch: 560877

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			11/25/20 12:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/25/20 12:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/25/20 12:43	1
Cyclohexane	ND		1.0	0.18	ug/L			11/25/20 12:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/25/20 12:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/25/20 12:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/25/20 12:43	1
Methyl acetate	ND		2.5	1.3	ug/L			11/25/20 12:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/25/20 12:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/25/20 12:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/25/20 12:43	1
Styrene	ND		1.0	0.73	ug/L			11/25/20 12:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/25/20 12:43	1
Toluene	ND		1.0	0.51	ug/L			11/25/20 12:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/25/20 12:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/25/20 12:43	1
Trichloroethene	ND		1.0	0.46	ug/L			11/25/20 12:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/25/20 12:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/25/20 12:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/25/20 12:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		11/25/20 12:43	1
Toluene-d8 (Surr)	103		80 - 120		11/25/20 12:43	1
4-Bromofluorobenzene (Surr)	106		73 - 120		11/25/20 12:43	1
Dibromofluoromethane (Surr)	109		75 - 123		11/25/20 12:43	1

Lab Sample ID: LCS 480-560877/5
Matrix: Water
Analysis Batch: 560877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.0		ug/L		88	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.3		ug/L		105	76 - 120
1,1,2-Trichloroethane	25.0	27.4		ug/L		110	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.8		ug/L		115	61 - 148
1,1-Dichloroethane	25.0	25.5		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	28.2		ug/L		113	66 - 127
1,2,4-Trichlorobenzene	25.0	26.7		ug/L		107	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	56 - 134
1,2-Dibromoethane	25.0	28.1		ug/L		113	77 - 120
1,2-Dichlorobenzene	25.0	27.0		ug/L		108	80 - 124
1,2-Dichloroethane	25.0	28.0		ug/L		112	75 - 120
1,2-Dichloropropane	25.0	29.4		ug/L		117	76 - 120
1,3-Dichlorobenzene	25.0	28.3		ug/L		113	77 - 120
1,4-Dichlorobenzene	25.0	27.9		ug/L		112	80 - 120
2-Hexanone	125	131		ug/L		105	65 - 127
2-Butanone (MEK)	125	139		ug/L		111	57 - 140

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QC Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-560877/5
Matrix: Water
Analysis Batch: 560877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	71 - 125
Acetone	125	111		ug/L		89	56 - 142
Benzene	25.0	27.8		ug/L		111	71 - 124
Bromodichloromethane	25.0	29.5		ug/L		118	80 - 122
Bromoform	25.0	28.9		ug/L		116	61 - 132
Bromomethane	25.0	26.3		ug/L		105	55 - 144
Carbon disulfide	25.0	21.1		ug/L		84	59 - 134
Carbon tetrachloride	25.0	26.0		ug/L		104	72 - 134
Chlorobenzene	25.0	27.8		ug/L		111	80 - 120
Dibromochloromethane	25.0	28.6		ug/L		114	75 - 125
Chloroethane	25.0	24.8		ug/L		99	69 - 136
Chloroform	25.0	25.6		ug/L		102	73 - 127
Chloromethane	25.0	27.9		ug/L		111	68 - 124
cis-1,2-Dichloroethene	25.0	26.9		ug/L		107	74 - 124
cis-1,3-Dichloropropene	25.0	28.9		ug/L		116	74 - 124
Cyclohexane	25.0	22.3		ug/L		89	59 - 135
Dichlorodifluoromethane	25.0	23.9		ug/L		95	59 - 135
Ethylbenzene	25.0	26.7		ug/L		107	77 - 123
Isopropylbenzene	25.0	25.9		ug/L		104	77 - 122
Methyl acetate	50.0	53.0		ug/L		106	74 - 133
Methyl tert-butyl ether	25.0	19.8		ug/L		79	77 - 120
Methylcyclohexane	25.0	23.3		ug/L		93	68 - 134
Methylene Chloride	25.0	26.3		ug/L		105	75 - 124
Styrene	25.0	27.6		ug/L		111	80 - 120
Tetrachloroethene	25.0	28.8		ug/L		115	74 - 122
Toluene	25.0	26.5		ug/L		106	80 - 122
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	73 - 127
Trichloroethene	25.0	28.8		ug/L		115	74 - 123
Trichlorofluoromethane	25.0	20.4		ug/L		82	62 - 150
Vinyl chloride	25.0	23.7		ug/L		95	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
Toluene-d8 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	107		75 - 123

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-560470/1-A
Matrix: Water
Analysis Batch: 560662

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 560470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		11/23/20 09:08	11/24/20 12:46	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110	11/23/20 09:08	11/24/20 12:46	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: LCS 480-560470/2-A
Matrix: Water
Analysis Batch: 560662

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 560470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	1.11		ug/L		111	40 - 140
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8	29		15 - 110				

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-161510/1-A
Matrix: Water
Analysis Batch: 161547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0	1.1	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	1.1	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.83	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.46	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.98	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.58	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.46	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.73	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.46	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.59	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.63	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.67	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.39	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.87	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.48	ng/L		11/25/20 09:46	11/26/20 07:39	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.57	ng/L		11/25/20 09:46	11/26/20 07:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.79	ng/L		11/25/20 09:46	11/26/20 07:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.93	ng/L		11/25/20 09:46	11/26/20 07:39	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		5.0	0.72	ng/L		11/25/20 09:46	11/26/20 07:39	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.66	ng/L		11/25/20 09:46	11/26/20 07:39	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	95		50 - 150				11/25/20 09:46	11/26/20 07:39	1
13C4 PFHpA	95		50 - 150				11/25/20 09:46	11/26/20 07:39	1
13C4 PFOA	86		50 - 150				11/25/20 09:46	11/26/20 07:39	1
13C4 PFOS	98		50 - 150				11/25/20 09:46	11/26/20 07:39	1
13C5 PFNA	89		50 - 150				11/25/20 09:46	11/26/20 07:39	1
13C4 PFBA	95		25 - 150				11/25/20 09:46	11/26/20 07:39	1
13C2 PFHxA	96		50 - 150				11/25/20 09:46	11/26/20 07:39	1
13C2 PFDA	100		50 - 150				11/25/20 09:46	11/26/20 07:39	1
13C2 PFUnA	98		50 - 150				11/25/20 09:46	11/26/20 07:39	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 200-161510/1-A
Matrix: Water
Analysis Batch: 161547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161510

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDoA	91		50 - 150	11/25/20 09:46	11/26/20 07:39	1
13C8 FOSA	71		25 - 150	11/25/20 09:46	11/26/20 07:39	1
13C5 PFPeA	95		25 - 150	11/25/20 09:46	11/26/20 07:39	1
13C2 PFTeDA	77		50 - 150	11/25/20 09:46	11/26/20 07:39	1
d3-NMeFOSAA	90		50 - 150	11/25/20 09:46	11/26/20 07:39	1
d5-NEtFOSAA	104		50 - 150	11/25/20 09:46	11/26/20 07:39	1
M2-6:2 FTS	98		25 - 150	11/25/20 09:46	11/26/20 07:39	1
M2-8:2 FTS	98		25 - 150	11/25/20 09:46	11/26/20 07:39	1
13C3 PFBS	98		50 - 150	11/25/20 09:46	11/26/20 07:39	1

Lab Sample ID: LCS 200-161510/2-A
Matrix: Water
Analysis Batch: 161547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Perfluorobutanoic acid (PFBA)	40.0	41.8		ng/L		104	50 - 150
Perfluoropentanoic acid (PFPeA)	40.0	43.2		ng/L		108	50 - 150
Perfluorohexanoic acid (PFHxA)	40.0	40.9		ng/L		102	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	39.7		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	44.1		ng/L		110	70 - 130
Perfluorononanoic acid (PFNA)	40.0	43.1		ng/L		108	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	42.8		ng/L		107	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	39.6		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	46.0		ng/L		115	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	43.9		ng/L		110	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	40.8		ng/L		102	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	38.4		ng/L		108	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.4		ng/L		103	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.1		ng/L		108	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	41.1		ng/L		111	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	43.8		ng/L		113	50 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	42.7		ng/L		107	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.4		ng/L		106	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	46.9		ng/L		117	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	37.7		ng/L		99	50 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	44.3		ng/L		116	50 - 150

QC Sample Results

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
18O2 PFHxS	100		50 - 150
13C4 PFHpA	98		50 - 150
13C4 PFOA	88		50 - 150
13C4 PFOS	99		50 - 150
13C5 PFNA	91		50 - 150
13C4 PFBA	97		25 - 150
13C2 PFHxA	98		50 - 150
13C2 PFDA	97		50 - 150
13C2 PFUnA	106		50 - 150
13C2 PFDoA	99		50 - 150
13C8 FOSA	79		25 - 150
13C5 PFPeA	100		25 - 150
13C2 PFTeDA	94		50 - 150
d3-NMeFOSAA	91		50 - 150
d5-NEtFOSAA	90		50 - 150
M2-6:2 FTS	99		25 - 150
M2-8:2 FTS	99		25 - 150
13C3 PFBS	99		50 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-561187/1-A
Matrix: Water
Analysis Batch: 561444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 561187

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.010	0.0030	mg/L		11/30/20 10:55	11/30/20 20:32	1

Lab Sample ID: LCS 480-561187/2-A
Matrix: Water
Analysis Batch: 561444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 561187

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Lead	0.200	0.197		mg/L		99	80 - 120

QC Association Summary

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

GC/MS VOA

Analysis Batch: 560826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178350-2	MW-4S	Total/NA	Water	8260C	
480-178350-3	MW-2	Total/NA	Water	8260C	
480-178350-5	PZ-7	Total/NA	Water	8260C	
480-178350-6	IRM-SUMP	Total/NA	Water	8260C	
MB 480-560826/7	Method Blank	Total/NA	Water	8260C	
LCS 480-560826/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 560877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178350-8	TB 111720	Total/NA	Water	8260C	
MB 480-560877/7	Method Blank	Total/NA	Water	8260C	
LCS 480-560877/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 560470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178350-1	MW-4D	Total/NA	Water	3510C	
480-178350-2	MW-4S	Total/NA	Water	3510C	
480-178350-3	MW-2	Total/NA	Water	3510C	
480-178350-4	MW-3	Total/NA	Water	3510C	
MB 480-560470/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-560470/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 560662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178350-1	MW-4D	Total/NA	Water	8270D SIM ID	560470
480-178350-2	MW-4S	Total/NA	Water	8270D SIM ID	560470
480-178350-4	MW-3	Total/NA	Water	8270D SIM ID	560470
MB 480-560470/1-A	Method Blank	Total/NA	Water	8270D SIM ID	560470
LCS 480-560470/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	560470

Analysis Batch: 560875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178350-3	MW-2	Total/NA	Water	8270D SIM ID	560470

LCMS

Prep Batch: 161510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178350-1	MW-4D	Total/NA	Water	3535	
480-178350-2	MW-4S	Total/NA	Water	3535	
480-178350-3	MW-2	Total/NA	Water	3535	
480-178350-4	MW-3	Total/NA	Water	3535	
480-178350-5	PZ-7	Total/NA	Water	3535	
480-178350-7	FRB 111720	Total/NA	Water	3535	
MB 200-161510/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-161510/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 161547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178350-1	MW-4D	Total/NA	Water	537 (modified)	161510

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

LCMS (Continued)

Analysis Batch: 161547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178350-2	MW-4S	Total/NA	Water	537 (modified)	161510
480-178350-3	MW-2	Total/NA	Water	537 (modified)	161510
480-178350-4	MW-3	Total/NA	Water	537 (modified)	161510
480-178350-5	PZ-7	Total/NA	Water	537 (modified)	161510
480-178350-7	FRB 111720	Total/NA	Water	537 (modified)	161510
MB 200-161510/1-A	Method Blank	Total/NA	Water	537 (modified)	161510
LCS 200-161510/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	161510

Metals

Prep Batch: 561187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178350-2	MW-4S	Total/NA	Water	3005A	
480-178350-3	MW-2	Total/NA	Water	3005A	
480-178350-5	PZ-7	Total/NA	Water	3005A	
480-178350-6	IRM-SUMP	Total/NA	Water	3005A	
MB 480-561187/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-561187/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 561444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178350-2	MW-4S	Total/NA	Water	6010C	561187
480-178350-3	MW-2	Total/NA	Water	6010C	561187
480-178350-5	PZ-7	Total/NA	Water	6010C	561187
480-178350-6	IRM-SUMP	Total/NA	Water	6010C	561187
MB 480-561187/1-A	Method Blank	Total/NA	Water	6010C	561187
LCS 480-561187/2-A	Lab Control Sample	Total/NA	Water	6010C	561187

Lab Chronicle

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: MW-4D
Date Collected: 11/17/20 13:40
Date Received: 11/19/20 08:00

Lab Sample ID: 480-178350-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			560470	11/23/20 09:08	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	560662	11/24/20 15:56	JMM	TAL BUF
Total/NA	Prep	3535			161510	11/25/20 09:49	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	161547	11/26/20 10:16	BWC	TAL BUR

Client Sample ID: MW-4S
Date Collected: 11/17/20 11:00
Date Received: 11/19/20 08:00

Lab Sample ID: 480-178350-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560826	11/25/20 12:23	AMM	TAL BUF
Total/NA	Prep	3510C			560470	11/23/20 09:08	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	560662	11/24/20 16:19	JMM	TAL BUF
Total/NA	Prep	3535			161510	11/25/20 09:49	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	161547	11/26/20 10:24	BWC	TAL BUR
Total/NA	Prep	3005A			561187	11/30/20 10:55	ADM	TAL BUF
Total/NA	Analysis	6010C		1	561444	11/30/20 20:50	AMH	TAL BUF

Client Sample ID: MW-2
Date Collected: 11/17/20 15:00
Date Received: 11/19/20 08:00

Lab Sample ID: 480-178350-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560826	11/25/20 12:46	AMM	TAL BUF
Total/NA	Prep	3510C			560470	11/23/20 09:08	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	560875	11/26/20 01:42	JMM	TAL BUF
Total/NA	Prep	3535			161510	11/25/20 09:49	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	161547	11/26/20 10:33	BWC	TAL BUR
Total/NA	Prep	3005A			561187	11/30/20 10:55	ADM	TAL BUF
Total/NA	Analysis	6010C		1	561444	11/30/20 20:54	AMH	TAL BUF

Client Sample ID: MW-3
Date Collected: 11/17/20 16:00
Date Received: 11/19/20 08:00

Lab Sample ID: 480-178350-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			560470	11/23/20 09:08	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	560662	11/24/20 17:07	JMM	TAL BUF
Total/NA	Prep	3535			161510	11/25/20 09:49	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	161547	11/26/20 10:41	BWC	TAL BUR

Lab Chronicle

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Client Sample ID: PZ-7

Lab Sample ID: 480-178350-5

Date Collected: 11/17/20 13:00

Matrix: Water

Date Received: 11/19/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	560826	11/25/20 13:09	AMM	TAL BUF
Total/NA	Prep	3535			161510	11/25/20 09:49	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	161547	11/26/20 10:49	BWC	TAL BUR
Total/NA	Prep	3005A			561187	11/30/20 10:55	ADM	TAL BUF
Total/NA	Analysis	6010C		1	561444	11/30/20 20:58	AMH	TAL BUF

Client Sample ID: IRM-SUMP

Lab Sample ID: 480-178350-6

Date Collected: 11/17/20 16:30

Matrix: Water

Date Received: 11/19/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560826	11/25/20 13:40	AMM	TAL BUF
Total/NA	Prep	3005A			561187	11/30/20 10:55	ADM	TAL BUF
Total/NA	Analysis	6010C		1	561444	11/30/20 21:13	AMH	TAL BUF

Client Sample ID: FRB 111720

Lab Sample ID: 480-178350-7

Date Collected: 11/17/20 00:00

Matrix: Water

Date Received: 11/19/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			161510	11/25/20 09:49	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	161547	11/26/20 10:58	BWC	TAL BUR

Client Sample ID: TB 111720

Lab Sample ID: 480-178350-8

Date Collected: 11/17/20 00:00

Matrix: Water

Date Received: 11/19/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560877	11/25/20 14:27	LCH	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
 TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-16-21
Florida	NELAP	E87467	06-30-21
Minnesota	NELAP	050-999-436	12-31-20
New Hampshire	NELAP	2006	12-18-20
New Jersey	NELAP	VT972	06-30-21
New York	NELAP	10391	04-01-21
Pennsylvania	NELAP	68-00489	04-30-21
Rhode Island	State	LAO00298	12-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00272	10-30-23
Vermont	State	VT4000	12-31-20
Virginia	NELAP	460209	12-14-20
Wisconsin	State	399133350	08-31-21

Method Summary

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600


TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: HRP Associates, Inc.
Project/Site: Balchem - Slate Hill

Job ID: 480-178350-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-178350-1	MW-4D	Water	11/17/20 13:40	11/19/20 08:00	
480-178350-2	MW-4S	Water	11/17/20 11:00	11/19/20 08:00	
480-178350-3	MW-2	Water	11/17/20 15:00	11/19/20 08:00	
480-178350-4	MW-3	Water	11/17/20 16:00	11/19/20 08:00	
480-178350-5	PZ-7	Water	11/17/20 13:00	11/19/20 08:00	
480-178350-6	IRM-SUMP	Water	11/17/20 16:30	11/19/20 08:00	
480-178350-7	FRB 111720	Water	11/17/20 00:00	11/19/20 08:00	
480-178350-8	TB 111720	Water	11/17/20 00:00	11/19/20 08:00	

Client Information		Sample: STEVEN TRUEX		Lab PM: Giacomazza, Joe V		Carrier Tracking No(s):		COC No: 480-153123-34034.2	
Client Contact: Mark Wright		Phone: 518-877-7101		E-Mail: joe.giacomazza@testamericainc.com				Page: 1 of 1 Page 2 of 2 ST	
Company: HRP Associates, Inc.								Job #:	
Address: 1 Fairchild Square Suite 110		Due Date Requested: STANDARD						Preservation Codes:	
City: Clifton Park		TAT Requested (days): STANDARD						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 H2SO4 3P Dodecahydrate acetone JCAA pH 4-5 other (specify)	
State, Zip: NY, 12065		PO #: Purchase Order not required							
Phone: 518-877-7101		WO #: BAL6029.PZ							
Email: mark.wright@hrpassociates.com		Project #: 48023047							
Project Name: Fleet Hill - NY Project		SSOW#:							
Site: BALCHEM - SLATE HILL									

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Local Method	Total Number	Special Instructions/Note:
					6010C - (MOD)	8260C - TCL list OLM04.2	PFC_IDA - PFAS, Standard List (21 analytes)	8270D_SIM_MS_ID - SIM List			
MW-4D	11/17/20	1340	G	Water	X	X	X	X			
MW-4S	11/17/20	11 ⁰⁰ AM	G	Water	X	X	X	X			
MW-2	11/17/20	15 ⁰⁰	G	WATER	X	X	X	X			
MW-3	11/17/20	16 ⁰⁰	G	WATER	X	X	X	X			
PZ-6 No SAMPLE	11/17/20	N/A	G	WATER	X	X	X	X			No Sample
PZ-7	11/17/20	13 ⁰⁰	G	WATER	X	X	X	X			
IRM-SUMP	11/17/20	16 ³⁰	G	WATER	X	X	X	X			
FRB 111720	11/17/20	—	—	WATER	X	X	X	X			
TB 111720	—	—	—	WATER	X	X	X	X			

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		
<i>Mark Wright</i>	11/18/20 1010 AM	HRP	<i>Karl Zocher</i>	11/18/20 1010	Cureph		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		
<i>Karl Zocher</i>	11/18/20 1200	Cureph					
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		
			<i>[Signature]</i>	11/19/20 200	HRP		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:		3, 2 #1			

Eurofins TestAmerica, Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

480-178350 Chain of Custody



Environment Testing
America

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 30 Community Drive, Suite 11, City: South Burlington State, Zip: VT, 05403 Phone: 802-660-1990 (Tel) 802-660-1919 (Fax) Email:		Lab PM: Giacomazza, Joe E-Mail: joegiacomazza@testamericainc.com State of Origin: New York Accreditations Required (See note): NELAP - New York							
Due Date Requested: 12/3/2020 TAT Requested (days):		COC No: 480-60392-1 Page: Page 1 of 1 Job #: 480-178350-1 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:							
Project #: 48023047 Site: Balchem - Slate Hill		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/dil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	FC ID/AS35_IWTF PFAS Standard List (21 Analytes)	Total Number of Containers	Special Instructions/Note:
MW-4D (480-178350-1)	11/17/20	13:40 Eastern	Water	Water	X	X		2	
MW-4S (480-178350-2)	11/17/20	11:00 Eastern	Water	Water	X	X		2	
MW-2 (480-178350-3)	11/17/20	15:00 Eastern	Water	Water	X	X		2	
MW-3 (480-178350-4)	11/17/20	16:00 Eastern	Water	Water	X	X		2	
PZ-7 (480-178350-5)	11/17/20	13:00 Eastern	Water	Water	X	X		2	
FRB 111720 (480-178350-7)	11/17/20	Eastern	Water	Water	X	X		2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 11/20/20 19:08
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Method of Shipment: _____

Received by: _____ Date/Time: 11/20/20 19:00
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Cooler Temperature(s) °C and Other Remarks: _____

Custody Seals Intact: Yes No
 Custody Seal No.: _____



Ver: 11/01/2020

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
10 HAZELWOOD DR

SHIP DATE: 20NOV20
ACTWGT: 52.30 LB
CAD: 846654/CAFE3406
DIMS: 26x15x14 IN

AMHERST, NY 14228
UNITED STATES US

BILL SENDER

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
10 HAZELWOOD DR

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AMHERST, NY 14228
UNITED STATES US

BILL SENDER

TO **SAMPLE MGT.**
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

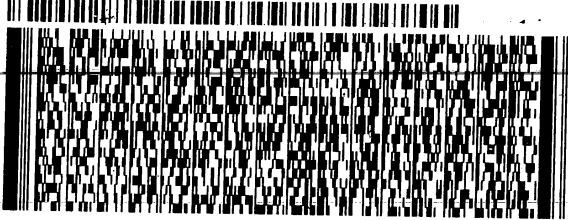
(802) 660-1990

REF: TA BURLINGTON

TO **SAMPLE MGT.**
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990

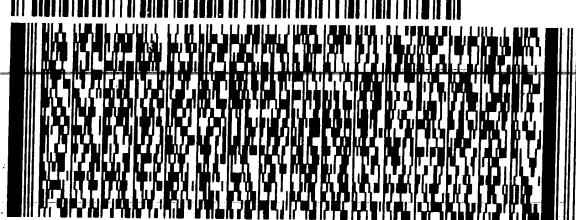
REF: TA BURLINGTON



FedEx
Express



J201019110601 vt



FedEx
Express



1 of 2
TRK# 1888 3862 4206
0201
MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

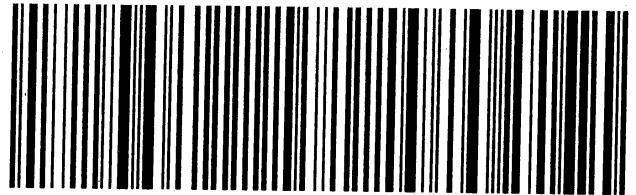
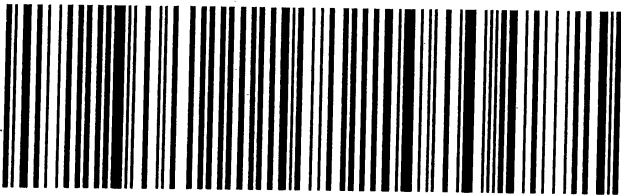
05403
VT-US BTV

2 of 2
MPS# 1888 3862 4217
0263
Mstr# 1888 3862 4206

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV



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15
16

Login Sample Receipt Checklist

Client: HRP Associates, Inc.

Job Number: 480-178350-1

Login Number: 178350

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	HRP
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: HRP Associates, Inc.

Job Number: 480-178350-1

Login Number: 178350

List Number: 2

Creator: Jaffe, Nat S

List Source: Eurofins TestAmerica, Burlington

List Creation: 11/21/20 04:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1207993
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.3°C, 1.8°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT 2

Institutional and Engineering Controls Certification Form



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



	Site Details	Box 1
Site No. 336032		
Site Name Balchem Plant		
Site Address: Route 284	Zip Code: 10973	
City/Town: Wawayanda		
County: Orange		
Site Acreage: 3.000		
Reporting Period: May 05, 2012 to March 01, 2021		
		YES NO
1. Is the information above correct?		<input checked="" type="checkbox"/> <input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		<input type="checkbox"/> <input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		<input type="checkbox"/> <input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		<input type="checkbox"/> <input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?		<input type="checkbox"/> <input checked="" type="checkbox"/>
		Box 2
		YES NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial		<input checked="" type="checkbox"/> <input type="checkbox"/>
7. Are all ICs in place and functioning as designed?		<input type="checkbox"/> <input checked="" type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.		
A Corrective Measures Work Plan must be submitted along with this form to address these issues.		
_____ Signature of Owner, Remedial Party or Designated Representative		3/30/21 _____ Date

ATTACHMENT 3

Corrective Measures Workplan



March 29, 2021

Michael Squire
Project Manager
New York State Department of Environmental Conservation 625 Broadway
Albany, NY 12233-7014

RE: CORRECTIVE MEASURES WORKPLAN FOR ENVIRONMENTAL DEED RESTRICTION BALCHEM CORPORATION, SLATE HILL NEW YORK (DEC Site #336032) (HRP PROJECT #BAL6031.P2)

Dear Mr. Squire,

Balchem Corporation's (Balchem) 2007 Route 284, Slate Hill, New York is listed on New York State Superfund program registry as Class 04 site, which indicates that the site has been properly closed but contamination remains onsite, exceeding NYSDEC clean-up criteria. Since there is contamination remaining onsite, the NYSDEC requires that a Site Management Plan be in place to minimize potential risks to human health or the environment due to the contamination remaining in place. The Site Management Plan includes an interceptor trench for shallow groundwater, periodic groundwater samples (currently required every three years) and a deed restriction that limits the use of the site to industrial uses. Based on your request the following information will be compiled and submitted to the NYSDEC in accordance with the deed restriction requirements.

The Deed Restriction will include supporting documents including:

- Copy of current deed and supporting title documentation
- Copy of tax map
- Proof of authority to obligate owner of property as set forth in "Verification of ownership of property" on the Easement checklist
- Legal description of the easement area, electronic copy to be in an electronic text format (i.e., MS Word or Rich Text Format)
- A draft Notice to Municipality, with appropriate site-specific provisions
- Easement Checklist with certification signed by Remedial Party and Remedial Party's attorney
- Signed transfer tax forms (TP-584 or ACRIS Forms)

The supporting documents are anticipated to be compiled 2nd Quarter 2021

In addition, a site survey will be completed and submitted to the NYSDEC that includes:

- Metes and bounds description, graphic scale, Tax Map Section, Block and Lot and physical address and is consistent with the NYSDEC Agreement/Order/SAC
- Name, address, telephone number, signature and certification of the professional land surveyor who performed the survey, his or her official seal and registration number, the date the survey was completed, the dates of all of the surveyor's revisions

- Depict the location of all buildings/monuments/overlaps/encroachments upon the surveyed property with their locations defined by measurement perpendicular to the nearest perimeter boundaries
- Depict the location of visible improvements within five feet of each side of boundary lines
- Show ponds, lakes, springs, rivers or a natural water boundary bordering on or running through the surveyed property; the survey must measure the location of the natural water boundary and note on the survey the date of the measurement
- Correctly depict the environmental easement area with corresponding metes and bounds description and acreage, and in
- Include the required certification language

The survey was completed in November 2020

After the supporting documentation has been compiled, a deed restriction package will be compiled and submitted to the DEC for review. Once DEC approval has been received the deed restriction will be filed with the county clerk.

It is anticipated that the deed restriction will be provided to the DEC for review 3rd Quarter 2021

If you have any questions or require additional information, please feel free to contact us at (518)-877-7101.

Sincerely,



Mark Wright, PG
Project Manager