

December 10, 2019 Reference No. 081618

Mr. Steven Scharf
New York State Department of Environmental Conservation
Division of Solid & Hazardous Materials
Bureau of Solid Waste and Corrective Action
625 Broadway
Albany, New York
12233-7015

Dear Mr. Scharf:

Re: November 2019 Progress Report

Order on Consent and Administrative Settlement Index #A1-0799-12-10 Operable Unit 5, RUCO Polymer Corp., Hicksville, NY (Site #130004)

GHD, on behalf of Covestro and Glenn Springs Holdings, Inc. (GSH), has prepared this submittal that provides the monthly progress report for November 2019 for the former RUCO Polymer Corp. (RUCO) Site in Hicksville, New York. This submittal covers Operable Unit 5 (OU-5) activity. The OU-5 Order on Consent became effective on September 30, 2013 and the Record of Decision was received on March 31, 2017.

Actions performed during the Reporting Period

- Submitted the October 2019 progress report for OU-5 to the New York Department of Environmental Conservation (NYSDEC) on November 8, 2019.
- 2. Continued operation and maintenance phase of the remedy, which involves monitoring of the subslab depressurization (SSD) systems per the Remedial Design dated January 16, 2018.
- 3. Completed validation of analytical results from the October SSD system sampling.

Actions anticipated to be performed in the Next Month

- Continue operation and maintenance phase of the remedy, which involves monitoring of the SSD systems per the Remedial Design dated January 16, 2018. Complete the next quarterly monitoring event which will include the field measurement of flow rate, vacuum, and vapors and collection of samples for analysis.
- 2. Complete 2019 annual sample of soil vapor probes VP-41, VP-42R, and VP-46.

Approved Modifications to Work Plans/Schedule

- Evaluate the full-scale system to confirm that multi-stack system emissions are within and below the updated NYSDEC Division of Air Resources (DAR) 6 NYCRR Part 200 Series Emission Guideline Values per NYSDEC April 10, 2019 letter.
- 2. Overall schedule for upcoming milestones per the RD are as follows:





- a. Operate all SSD systems for one year. Testing of the full-scale system will include calculations confirming the above for the full-scale multi-stack system.
- b. Submit the Final Engineering Report.

Analytical and Testing Results

1. Validated analytical results for samples collected from the six SSD systems on October 8, 2019 are attached in Table 1. A comparison of the most recent trichloroethylene (TCE) and tetrachloroethylene (PCE) concentrations for the SSD systems to previous monitoring event concentrations is presented in Table 2. The current concentrations of PCE in the six SSD systems range from 1.9 J to 4.6 J μg/m³. Concentrations of TCE were not detected in the six SSD systems during the most current sampling event. The highest concentrations in the SSD systems were observed in SSD-5. The PCE and TCE concentrations have decreased significantly in SSD-5 from 4,800 to 3.2 J μg/m³ and 65 μg/m³ to not detected, respectively.

Unresolved Delays

1. None during this reporting period.

Citizen Participation Plan

1. None during this reporting period.

Should you have any questions on the above, please do not hesitate to contact the undersigned at 519-340-4313 or email john.pentilchuk@GHD.com.

Yours truly,

GHD

John Pentilchuk

JP/kf/87

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Analytical Results Summary SSD System Sampling Glenn Springs Holdings, Inc. Hicksville, New York October 2019

	Location ID: Sample Name: Sample Date:	SSD-1 SV10819CM006 10/08/2019	SSD-2 SV10819CM005 10/08/2019	SSD-3 SV10819CM004 10/08/2019	SSD-4 SV10819CM003 10/08/2019	SSD-5 SV10819CM002 10/08/2019	SSD-6 SV10819CM001 10/08/2019
Parameters	Unit						
Volatile Organic Compounds							
1,1,1-Trichloroethane	μg/m3	4.9 U	4.7 U	4.6 U	5.2 U	5.2 U	5.0 U
1,1,2,2-Tetrachloroethane	μg/m3	6.1 U	5.9 U	5.8 U	6.6 U	6.6 U	6.3 U
1,1,2-Trichloroethane	μg/m3	4.9 U	4.7 U	4.6 U	5.2 U	5.2 U	5.0 U
1,1-Dichloroethane	μg/m3	3.6 U	3.5 U	3.4 U	3.9 U	3.9 U	3.7 U
1,1-Dichloroethene	μg/m3	3.5 U	3.4 U	3.3 U	3.8 U	3.8 U	3.6 U
1,2,4-Trichlorobenzene	μg/m3	26 U	25 U	25 U	28 U	28 U	27 U
1,2,4-Trimethylbenzene	μg/m3	4.4 U	4.2 U	4.1 U	4.7 U	4.7 U	4.5 U
1,2-Dibromoethane (Ethylene dibromide)	μg/m3	6.9 U	6.6 U	6.4 U	7.3 U	7.3 U	7.0 U
1,2-Dichlorobenzene	μg/m3	5.4 U	5.1 U	5.0 U	5.7 U	5.7 U	5.5 U
1,2-Dichloroethane	μg/m3	3.6 U	3.5 U	3.4 U	3.9 U	3.9 U	3.7 U
1,2-Dichloropropane	μg/m3	4.1 U	4.0 U	3.9 U	4.4 U	4.4 U	4.2 U
1,2-Dichlorotetrafluoroethane (CFC 114)	μg/m3	6.2 U	6.0 U	5.9 U	6.7 U	6.7 U	6.4 U
1,3,5-Trimethylbenzene	μg/m3	4.4 U	4.2 U	4.1 U	4.7 U	4.7 U	4.5 U
1,3-Butadiene	μg/m3	2.0 U	1.9 U	1.8 U	2.1 U	2.1 U	2.0 U
1,3-Dichlorobenzene	μg/m3	5.4 U	5.1 U	5.0 U	5.7 U	5.7 U	5.5 U
1,4-Dichlorobenzene	μg/m3	5.4 U	5.1 U	5.0 U	5.7 U	5.7 U	5.5 U
1,4-Dioxane	μg/m3	13 U	12 U	12 U	14 U	14 U	13 U
2,2,4-Trimethylpentane	μg/m3	4.2 U	4.0 U	3.9 U	4.5 U	4.5 U	4.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	μg/m3	10 U	10 U	9.9 U	11 U	11 U	11 U
2-Hexanone	μg/m3	15 U	14 U	14 U	16 U	16 U	15 U
4-Ethyl toluene	μg/m3	4.4 U	4.2 U	4.1 U	4.7 U	4.7 U	4.5 U
4-Methyl-2-pentanone (Methyl isobutyl ke		3.7 U	3.5 U	3.4 U	3.9 U	3.9 U	3.7 U
Acetone	μg/m3	48 J	99 J	110 J	76 J	86 J	73 J
Allyl chloride	μg/m3	11 U	11 U	10 U	12 U	12 U	11 U
Benzene	μg/m3	2.5 J	3.1	2.7 U	2.4 J	0.96 J	13
Benzyl chloride	μg/m3	4.6 U	4.4 U	4.3 U	4.9 U	4.9 U	4.7 U
Bromodichloromethane	μg/m3	6.0 U	5.7 U	5.6 U	6.4 U	6.4 U	6.1 U
Bromoform	μg/m3	9.2 U	8.8 U	8.7 U	9.9 U	9.9 U	9.4 U
Bromomethane (Methyl bromide)	μg/m3	35 U	33 U	33 U	37 U	37 U	36 U
Carbon disulfide	μg/m3	11 U	11 U	3.6 J	12 U	12 U	11 U
Carbon tetrachloride	μg/m3	5.6 U	5.4 U	5.3 U	6.0 U	6.0 U	5.8 U
Chlorobenzene	μg/m3	4.1 U	3.9 U	3.9 U	4.4 U	4.4 U	4.2 U
Chloroethane	μg/m3	9.4 U	9.0 U	8.9 U	10 U	10 U	9.6 U
Chloroform (Trichloromethane)	μg/m3	4.4 U	4.2 U	4.1 U	4.7 U	4.7 U	1.8 J
Chloromethane (Methyl chloride)	μg/m3	18 U	18 U	17 U	20 U	20 U	19 U
cis-1,2-Dichloroethene	μg/m3	3.5 U	3.4 U	3.3 U	3.8 U	3.8 U	3.6 U
cis-1,3-Dichloropropene	μg/m3	4.1 U	3.9 U	3.8 U	4.3 U	4.3 U	4.2 U

Analytical Results Summary SSD System Sampling Glenn Springs Holdings, Inc. Hicksville, New York October 2019

	Location ID: Sample Name: Sample Date:	SSD-1 SV10819CM006 10/08/2019	SSD-2 SV10819CM005 10/08/2019	SSD-3 SV10819CM004 10/08/2019	SSD-4 SV10819CM003 10/08/2019	SSD-5 SV10819CM002 10/08/2019	SSD-6 SV10819CM001 10/08/2019
Parameters	Unit						
Volatile Organic Compounds							
Cyclohexane	μg/m3	3.1 U	2.9 U	2.9 U	3.3 U	3.3 U	3.1 U
Dibromochloromethane	μg/m3	7.6 U	7.3 U	7.2 U	8.1 U	8.1 U	7.8 U
Dichlorodifluoromethane (CFC-12)	μg/m3	3.6 J	3.0 J	4.4	2.6 J	3.4 J	3.9 J
Ethanol	μg/m3	180 J	530 J	500 J	450 J	360 J	200 J
Ethylbenzene	μg/m3	3.9 U	3.7 U	3.6 U	4.1 U	4.1 U	4.0 U
Hexachlorobutadiene	μg/m3	38 U	36 U	36 U	41 U	41 U	39 U
Hexane	μg/m3	4.0	3.0 U	2.1 J	2.3 J	3.4 U	2.0 J
Isopropyl alcohol	μg/m3	11	16	14	15	13	12
Isopropyl benzene	μg/m3	4.4 U	4.2 U	4.1 U	4.7 U	4.7 U	4.5 U
m&p-Xylenes	μg/m3	3.9 U	3.7 U	3.6 U	4.1 U	4.1 U	4.0 U
Methyl tert butyl ether (MTBE)	μg/m3	13 U	12 U	12 U	14 U	14 U	13 U
Methylene chloride	μg/m3	31 U	30 U	29 U	33 U	33 U	32 U
N-Heptane	μg/m3	3.7 U	3.5 U	3.4 U	3.9 U	3.9 U	3.7 U
N-Propylbenzene	μg/m3	4.4 U	4.2 U	4.1 U	4.7 U	4.7 U	4.5 U
o-Xylene	μg/m3	3.9 U	3.7 U	3.6 U	4.1 U	4.1 U	4.0 U
Styrene	μg/m3	3.8 U	3.6 U	3.6 U	4.1 U	4.1 U	3.9 U
Tetrachloroethene	μg/m3	2.1 J	1.9 J	2.7 J	4.6 J	3.2 J	3.0 J
Tetrahydrofuran	μg/m3	2.6 U	2.5 U	2.5 U	2.8 U	2.8 U	2.7 U
Toluene	µg/m3	3.4 U	3.2 U	3.2 U	3.6 U	3.6 U	3.4 U
trans-1,2-Dichloroethene	μg/m3	3.5 U	3.4 U	3.3 U	3.8 U	3.8 U	3.6 U
trans-1,3-Dichloropropene	µg/m3	4.1 U	3.9 U	3.8 U	4.3 U	4.3 U	4.2 U
Trichloroethene	μg/m3	4.8 U	4.6 U	4.5 U	5.1 U	5.1 U	4.9 U
Trichlorofluoromethane (CFC-11)	μg/m3	3.1 J	2.3 J	2.8 J	2.0 J	3.2 J	4.8 J
Trifluorotrichloroethane (CFC-113)	μg/m3	6.8 U	6.6 U	6.4 U	7.3 U	7.3 U	7.0 U
Vinyl chloride	μg/m3	2.3 U	2.2 U	2.1 U	2.4 U	2.4 U	2.3 U

J - Estimated concentration

U - Not detected at the associated reporting limit

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TCE and PCE Concentration Comparison Over Time SSD System Sampling Glenn Springs Holdings, Inc. Hicksville, New York

	Location ⁽³⁾ : Sample Name: Sample Date:	SSD-1 SV6419VW005 06/04/2019 ⁽¹⁾	SSD-1 SV61119CM006 06/11/2019 ⁽²⁾	SSD-1 SV10819CM006 10/08/2019	SSD-2 SV6419VW004 06/04/2019 ⁽¹⁾	SSD-2 SV61119CM007 06/11/2019 ⁽²⁾	SSD-2 SV10819CM005 10/08/2019
Parameters	Unit						
Volatile Organic Compounds Tetrachloroethene Trichloroethene	μg/m3 μg/m3	5.3 U 4.2 U	11 2.6 J	2.1 J 4.8 U	5.0 U 4.0 U	19 2.2 J	1.9 J 4.6 U

- (1) - Samples collected immediately prior to start up
- (2) - Samples collected one week after startup
- SSD-1 is the southernmost system, SSD-6 is the northernmost system, and SSD-5 is the Phase I system installed in 2018 (3)
- Estimated concentration
- Ĵ΄ U - Not detected at the associated reporting limit

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TCE and PCE Concentration Comparison Over Time SSD System Sampling Glenn Springs Holdings, Inc. Hicksville, New York

	Location ⁽³⁾ :	SSD-3	SSD-3	SSD-3	SSD-4	SSD-4	SSD-4
	Sample Name:	SV6419VW003	SV61119CM008	SV10819CM004	SV6419VW002	SV61119CM009	SV10819CM003
	Sample Date:	06/04/2019 ⁽¹⁾	06/11/2019 ⁽²⁾	10/08/2019	06/04/2019 ⁽¹⁾	06/11/2019 ⁽²⁾	10/08/2019
Parameters	Unit						
Volatile Organic Compounds Tetrachloroethene Trichloroethene	μg/m3	5.2 U	31	2.7 J	3.5 J	24	4.6 J
	μg/m3	4.1 U	3.1 J	4.5 U	0.81 J	4.5	5.1 U

- Samples collected immediately prior to start up Samples collected one week after startup (1) (2)
- SSD-1 is the southernmost system, SSD-6 is the northernmos (3)
- Estimated concentration
- Ĵ΄ U - Not detected at the associated reporting limit

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TCE and PCE Concentration Comparison Over Time SSD System Sampling Glenn Springs Holdings, Inc. Hicksville, New York

	Location ⁽³⁾ :	SSD-5	SSD-5	SSD-5	SSD-5	SSD-5
	Sample Name:	SSDS-1	SSDS-2	SSD-Leg (Enterprise)	SV61119CM010	SV10819CM002
	Sample Date:	07/11/2018 ⁽¹⁾	07/18/2018 ⁽²⁾	10/23/2018	06/11/2019	10/08/2019
Parameters	Unit					
Volatile Organic Compounds Tetrachloroethene Trichloroethene	μg/m3	280	380	4800	13	3.2 J
	μg/m3	8.1	14	65	6.6	5.1 U

- (1) (2)
- Samples collected immediately prior to start up
 Samples collected one week after startup
 SSD-1 is the southernmost system, SSD-6 is the northernmost
- (3) J - Estimated concentration
- U - Not detected at the associated reporting limit

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TCE and PCE Concentration Comparison Over Time SSD System Sampling Glenn Springs Holdings, Inc. Hicksville, New York

	Location ⁽³⁾ :	SSD-6	SSD-6	SSD-6
	Sample Name:	SV6419VW001	SV61119CM011	SV10819CM001
	Sample Date:	06/04/2019 ⁽¹⁾	06/11/2019 ⁽²⁾	10/08/2019
Parameters	Unit			
Volatile Organic Compounds Tetrachloroethene Trichloroethene	µg/m3	5.2 U	19	3.0 J
	µg/m3	1.7 J	5.6	4.9 U

- (1)
- Samples collected immediately prior to start up
 Samples collected one week after startup
 SSD-1 is the southernmost system, SSD-6 is the northernmost
- Estimated concentration
- Ŭ - Not detected at the associated reporting limit