



**Department of
Environmental
Conservation**

Tonawanda Community Working Group

Superfund and Brownfield Progress Update

March 22, 2023

Brownfield Site

Riverview Innovation &
Technology Campus,
#C915353

Work Plan/Report	Submitted	Status	Progress
Interim Site Management Plan (ISMP)	3/6/2020	DEC Approved	Continuous
Light Oil Area Secondary Containment Investigation Work Plan	3/6/2020	DEC Approved	Complete
Remedial Investigation Work Plan	3/12/2020	DEC Approved	Field Work Complete
Stormwater Pollution Prevention Plan	3/12/2020	DEC Approved	Continuous
Storm Sewer IRM Work Plan	4/12/2020	DEC Approved	Complete
Mixing Pad IRM Work Plan	5/5/2020	DEC Approved	Complete
PCC Excavation Work Plan	5/11/2020	DEC Approved	Complete
ISMP - Work Scope 2	5/11/2020	DEC Approved	Complete
Container Management IRM Work Plan	6/17/2020	DEC Approved	Complete
ISMP - Work Scope 3	7/6/2020	DEC Approved	Complete
Storm Sewer IRM Phase 1 Report	8/5/2020	DEC Approved	Complete
Abandoned Pipeline IRM Work Plan	8/19/2020	DEC Approved	Complete
PCC Grading Concept Plan	9/10/2020	DEC Approved	Complete
South Road Reconstruction Plan	11/17/2020	DEC Approved	Complete
Surface Water Phase 3 Work Plan	12/22/2020	DEC Approved	Complete

Work Plan/Report	Submitted	Status	Progress
AST Management Work Plan	12/23/2020	DEC Approved	Ongoing
Abandoned Pipeline IRM Report	1/20/2021	DEC Approved	Complete
Building Demolition Work Plan	1/26/2021	DEC Approved	Field Work Complete
PBS/CBS Tank Work Plan	2/15/2021	DEC Approved	Field Work Complete
Access to Coal Breaker Building	2/15/2021	DEC Approved	Complete
Secondary Containment Investigation Work Plan	3/10/2021	DEC Approved	Ongoing
Box Culvert Lining Work Plan	4/2/2021	DEC Approved	Complete
Supplemental Remedial Investigation	5/28/2021	DEC Approved	Field Work Complete
Mixing Pad Cleaning Completion Report	6/21/2021	DEC Approved	Complete
Byproducts Pipe Sealing Work Plan	6/30/2021	DEC Approved	Complete
Concrete Settling Pond Cleaning	6/30/2021	DEC Approved	Complete
Lime Still IRM Work Plan	7/14/2021	DEC Approved	Field Work Complete
Coke Oven Gas Bench Scale Testing	8/13/2021	DEC Approved	Complete
PFAS Sampling Work Plan	8/19/2021	DEC Approved	Complete
COG Pipe and Residual IRM Work Plan	8/25/2021	DEC Approved	Field Work Complete
Groundwater Treatment Plant IRM	10/5/2021	DEC Approved	Ongoing

Work Plan/Report	Submitted	Status	Progress
Groundwater Treatment Plant IRM – Addendum	2/15/2022	DEC Approved	Ongoing
Remedial Investigation Report (RIR)	3/11/2022	DEC Review	Resubmitted 7/25/22
Process Equipment Removal IRM WP	4/14/2022	DEC Approved	Field Work Complete
ST24 Secondary Containment WP	5/31/2022	DEC Approved	Completed
Alternatives Analysis Report	6/30/2022	RITC Revise	Comments sent 2/10/23
ST24 Bioremediation IRM Work Plan	9/23/2022	DEC Review	Comments sent 3/21/23
Pre-Design Investigation Work Plan	11/10/22	DEC Approved	Pending
Pump House Sampling Work Plan	12/1/22	RITC Revise	Comment sent 12/14/22
Junction Building NAPL Removal	1/11/23	DEC Approved	Pending

SWPPP Monitoring

- First 'Whole Effluent Toxicity' (WET) sampling event was completed in February 2023.
- WET testing is a qualitative means to assess the impact of the effluent water on aquatic wildlife.
- WET testing exposes lab raised biota to site effluent water at increasing concentrations.
 - Effluent concentrations of 0%, 6.25%, 12.5%, 25%, 50%, and 100%.
 - Test species: fathead minnows and ceriodaphnids (water flea).

SWPPP Monitoring

- Ceriodaphnids:

P446-02/TONAWANDA COKE/C.d.

USEPA TEST METHOD CODE 1002.0

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Table 2. Summary table for fecundity of ceriodaphnids, *Ceriodaphnia dubia*, exposed to effluent from the Tonawanda Coke facility in Tonawanda, NY (ARI Test ID No. 02-13-23-06).

Replicate	Effluent Concentration (%)					
	0	6.25	12.5	25	50	100
1	18	25	16	24	19	20
2	20	25	25	17	23	14
3	0	0	24	27	27	26
4	19	23	23	27	27	20
5	25	4	21	10	18	22
6	17	29	29	29	24	13
7	3	8	16	0	9	6
8	19	0	28	26	32	23
9	24	20	28	16	30	19
10	18	24	18	22	27	22
Total	163	158	228	198	236	191
Mean Production	16.3	15.8	22.8	19.8	23.6	19.1
Significance ^e	-	ns	ns	ns	ns	ns

^ens=not significant at p=0.05, sig=significant at p=0.05, ni=not included due a significant level of mortalities.

SWPPP Monitoring

- Minnows:

P446-02/TONAWANDA COKE/P.p.

USEPA TEST METHOD CODE 1000.0

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Table 2. Percent mortality chart for fathead minnows, Pimephales promelas, exposed to effluent from The Tonawanda Coke facility in Tonawanda, NY (ARI Test ID No. 02-13-23-05).

Effluent Concentration (%)	Cumulative Mortalities (%)							Significance ^a
	24 HRS	48 HRS	72 HRS	96 HRS	120 HRS	144 HRS	168 HRS	
0	0	0	2.5	2.5	2.5	2.5	5	-
6.25	0	0	0	0	0	0	0	ns
12.5	0	0	0	0	0	0	0	ns
25	0	0	0	0	0	2.5	2.5	ns
50	0	0	0	0	0	0	0	ns
100	0	0	0	0	0	0	0	ns

^ans=not significant at p=0.05, sig=significant at p=0.05.

SWPPP Monitoring

- WET results do not indicate any acute or chronic impacts to aquatic wildlife from the Outfall 004 discharge.
- Considering the results, testing frequency was reduced from quarterly to semi-annual.
- Next WET sampling event will be towards the end of summer.

RI/AAR

- Remedial Investigation Report (RIR) being revisited in context of the alternatives analysis/changing site conditions.
- DEC/DOH comments on the Alternatives Analysis Report (AAR) were sent on February 10, 2023.
- Revised AAR requested by April 11, 2023.

Superfund Site

Tonawanda Coke, #915055

Investigation Status

Site 108:

- Supplemental Investigation Report should be submitted to DEC in June 2023.
- RITC is removing tar containing pipes that remain on pipe rack along the former conveyor system.

Site 109:

- Anticipate submission of Feasibility Study in March 2023.

Site 110:

- Anticipate submission of revised Remedial Investigation Report in April 2023.

Tar Pipe Removal

- Piping along the conveyor rack is a continuation of the pipe that was removed from the River Road Tunnel.
- Periodic leaks from the piping have been observed. Leaks have been patched/tar collected as discovered.
- Removal of the piping is the most efficient way to managed these materials.
- All materials will be sent off-site for recycling (clean metal) or disposal.

Tar Pipe Removal



Thank You

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