



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
Boston, MA 02109-3912

VIA EMAIL

January 15, 2021

Al Vantour
John Moriarty & Associates, Inc.
3 Church Street
Winchester, MA 01890

Re: Authorization to discharge under the Remediation General Permit (RGP) – Authorization #MAG910959 for the 100 Cambridgeside Place site located in Cambridge, MA

Al Vantour:

Based on the review of a Notice of Intent (NOI) dated September 28, 2020 submitted by Lockwood Remediation Technologies LLC for the site referenced above, the U.S. Environmental Protection Agency, Region 1 (EPA) hereby authorizes John Moriarty & Associates, Inc., as the named operator, to discharge in accordance with the provisions of the RGP from this site via the City of Cambridge storm sewer system to the Lechmere Canal (MA72-38). Please note that the operator is responsible for obtaining permission to discharge to this system, prior to initiating discharges. EPA's authorization to discharge does not convey any such permission. The authorization number is listed above. The effective date of coverage is the date of this authorization letter. The RGP and this authorization to discharge will expire on April 8, 2022, or upon Notice of Termination, whichever occurs first. In accordance with Part 5.3 of the RGP, your permit coverage will be administratively continued upon expiration if the RGP has not been reissued.

Enclosed with this RGP authorization to discharge is a summary of the applicable effluent limitations and monitoring requirements for your activity category III, contaminated site dewatering discharge. Where a given parameter does not apply to the discharge, EPA has indicated "Not Required" in the enclosed summary. No dilution factor was used in calculating effluent limits applicable to the proposed discharge from this site. Please note that this summary does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of the RGP, including influent and effluent monitoring, record keeping, and reporting requirements. For the complete general permit, see EPA's RGP website, currently available at: <https://www.epa.gov/npdes-permits/remediation-general-permit-rgp-massachusetts-new-hampshire>.

A Best Management Practices Plan (BMPP) and Best Management Practices (BMPs) are required for all operators. This includes corrective actions required upon discovery of a violation of a permit limitation or requirement. See Part 2.5.1 and 2.5.2 of the RGP for more information.

In accordance with Part 2.5.3 of the RGP, the chemical(s) and/or additive(s) which have been disclosed to EPA may be discharged up to the frequency and level disclosed, provided that such discharge does not violate Section 307 or 311 of the Clean Water Act or applicable state water quality standards. The specific chemical(s) and/or additive(s) authorized are the pH conditioner(s) and coagulant(s) disclosed in the NOI. To discharge any new chemical(s) and/or additive(s), a Notice of Change is required. See Part 5.1 and Appendix IV, Part 2 of the RGP for more information.

Also in accordance with Part 2.5.3 of the RGP, you must conduct one acute whole effluent toxicity (WET) test. This monitoring requirement applies because information regarding the chemicals and/or additives proposed for treatment indicate that these materials may cause toxicity. In accordance with Part 2.2.4, Part 2.3.3.c, and Part 2.5.3.c, your authorization to discharge includes a monitor-only requirement for aluminum. This additional monitoring requirement is included because aluminum is an active ingredient in the proposed chemical(s) and/or additive(s), and this information is necessary to determine if effluent limitations are necessary to meet water quality standards. Monitoring for WET and aluminum shall be conducted in conjunction with the monitoring required for the other parameters applicable in Part 2.1.1 of the RGP after the proposed chemicals and additives have been added. Monitoring for WET shall otherwise be conducted as specified in Part 4.1.6 of the RGP and the results submitted to EPA upon completion.

Monitoring requirements begin upon initiation of discharge. Please ensure that sufficiently sensitive test methods are used for all sample analyses conducted for this permit. To be considered sufficiently sensitive, test methods must achieve a minimum level (ML) for analysis for a given parameter that is no greater than the effluent limitation for that parameter, unless otherwise specified for that parameter. Where no effluent limitation applies, EPA has provided the ML required with the enclosed summary. Where a compliance level applies, EPA has provided the required compliance level with the enclosed summary. See Part 4.1, 4.3, and 4.4 of the RGP for more information regarding monitoring requirements. Also see Appendix VII for more information regarding sufficiently sensitive test methods.

You must submit a Notice of Termination (NOT) within thirty (30) days of the termination of discharges, which must include an electronic attachment in accordance with Appendix VIII of all monitoring data collected. Since you have reported your discharges are not expected to last twelve (12) months or more, EPA expects you will not be subject to NetDMR reporting requirements. However, if EPA does not receive a NOT, you must begin submitting monitoring data using NetDMR for the monitoring period beginning on February 1, 2021. See Parts 4.6, 5.1, 5.2 and 6, Appendix IV, and Appendix VIII of the RGP for more information regarding reporting requirements. For additional Appendix VIII resources, including instructions for establishing a NetDMR account, see EPA's RGP website noted above.

Thank you in advance for your cooperation in this matter. Please contact Shauna Little at (617) 918-1989 or little.shauna@epa.gov, if you have any questions.

Sincerely,

Todd Borci, Acting Chief
Stormwater and Construction Permits Section
Water Division

Enclosure

cc: John Twohig, New England Development, via email
Kim Gravelle, Lockwood Remediation Technologies LLC, via email
Jacob Jennings, Lockwood Remediation Technologies LLC, via email
Cathy Vakalopoulos, MassDEP, via email
City of Cambridge DPW, via email

GENERAL PERMIT FOR REMEDIATION ACTIVITY DISCHARGES

Table 1: Authorization Information

Permit Number	MAG910959
Receiving Water	Lechmere Canal
Outfall Number(s)	Outfall 001 to City of Cambridge
Monitoring Requirements	See Table 2 through Table 6, below; See Parts 4.1, 4.3 and 4.4 of the RGP; WET testing required
Reporting Requirements	See Parts 4.6, 5.1, 5.2 and 6 of the RGP; NetDMR reporting will begin Feb 1, 2022 unless NOT received by EPA

Table 2: Chemical-Specific Effluent Limitations and Monitor-Only Requirements¹

Parameter²	Effluent Limitation³
A. Inorganics	
Ammonia ⁴	Report mg/L
Chloride ⁵	Report µg/L
Total Residual Chlorine ⁶	Not Required
Total Suspended Solids	30 mg/L
Antimony ⁷	206 µg/L
Arsenic ⁷	10 µg/L
Cadmium ⁷	10.2 µg/L
Chromium III ⁷	323 µg/L
Chromium VI ⁷	323 µg/L
Copper ⁷	242 µg/L
Iron ⁷	5,000 µg/L
Lead ⁷	160 µg/L
Mercury ⁷	0.739 µg/L
Nickel ⁷	1,450 µg/L
Selenium ⁷	5.0 µg/L
Silver ⁷	35.1 µg/L
Zinc ⁷	420 µg/L
Cyanide ⁸	178 mg/L
B. Non-Halogenated Volatile Organic Compounds	
Total BTEX ⁹	Not Required
Benzene	Not Required
1,4 Dioxane	Not Required
Acetone	7.97 mg/L
Phenol	Not Required
C. Halogenated Volatile Organic Compounds	
Carbon Tetrachloride	Not Required
1,2 Dichlorobenzene	Not Required
1,3 Dichlorobenzene	Not Required
1,4 Dichlorobenzene	Not Required
1,1 Dichloroethane	Not Required
1,2 Dichloroethane	Not Required

1,1 Dichloroethylene	Not Required
Ethylene Dibromide	Not Required
Methylene Chloride	Not Required
1,1,1 Trichloroethane	Not Required
1,1,2 Trichloroethane	Not Required
Trichloroethylene	Not Required
Tetrachloroethylene	5.0 µg/L
cis-1,2 Dichloroethylene	Not Required
Vinyl Chloride	Not Required
D. Non-Halogenated Semi-Volatile Organic Compounds	
Total Phthalates ¹⁰	Not Required
Diethylhexyl Phthalate	Not Required
Total Group I Polycyclic Aromatic Hydrocarbons ¹¹	Not Required
Benzo(a)anthracene ¹¹	Not Required
Benzo(a)pyrene ¹¹	Not Required
Benzo(b)fluoranthene ¹¹	Not Required
Benzo(k)fluoranthene ¹¹	Not Required
Chrysene ¹¹	Not Required
Dibenzo(a,h)anthracene ¹¹	Not Required
Indeno(1,2,3-cd)pyrene ¹¹	Not Required
Total Group II Polycyclic Aromatic Hydrocarbons ¹²	Not Required
Naphthalene	Not Required
E. Halogenated Semi-Volatile Organic Compounds	
Total Polychlorinated Biphenyls ¹³	Not Required
Pentachlorophenol	Not Required
F. Fuels Parameters	
Total Petroleum Hydrocarbons	Not Required
Ethanol ¹⁴	Not Required
Methyl-tert-Butyl Ether	Not Required
tert-Butyl Alcohol	Not Required
tert-Amyl Methyl Ether	Not Required

Table 2 Notes:

1: The following abbreviations are used in Table 2, above:

a: mg/L = milligrams per liter

b: µg/L = micrograms per liter

2: The sample type required for all parameters is grab. Grab samples must be analyzed individually and cannot be composited.

3: The effluent limitation and/or monitor-only requirement for any parameter applies, unless “Not Required” is shown. The limitation type for all parameters is monthly average.

4: The minimum level (ML) for analysis of ammonia must be less than or equal to 0.1 mg/L.

5: The ML for analysis of chloride must be less than or equal to 230 mg/L.

- 6: The ML for analysis of total residual chlorine (TRC) must be less than or equal to 50 µg/L.
- 7: The limitation for this parameter is on the basis of total recoverable metal in the water column.
- 8: The ML for analysis of total cyanide must be less than or equal to 5.0 µg/L.
- 9: Total BTEX is the sum of: benzene; toluene; ethylbenzene; and (m,p,o) xylenes.
- 10: Total Phthalates is the sum of: diethylhexyl phthalate; butyl benzyl phthalate; di-n-butyl phthalate; diethyl phthalate; dimethyl phthalate; and di-n-octyl phthalate.
- 11: Total Group I PAHs is the sum of: benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; dibenzo(a,h)anthracene; indeno(1,2,3-cd)pyrene. ML for analysis of group I polycyclic aromatic hydrocarbons (PAHs) must be less than or equal to 0.1 µg/L using a test method in 40 CFR §136 with selected ion monitoring. MassDEP (e.g., EPH) and RCRA (e.g., 8260) methods cannot be used for analysis.
- 12: Total Group II PAHs is the sum of: acenaphthene; acenaphthylene; anthracene (CAS No. 120-12-7); benzo(g,h,i)perylene; fluoranthene; fluorene; naphthalene; phenanthrene; pyrene. MassDEP (e.g., EPH) and RCRA (e.g., 8270) methods cannot be used for analysis.
- 13: Total PCBs is the sum of the following aroclors: PCB-1016, PCB-1221, PCB-1232, PCB-1242, PCB-1248, PCB-1254, and PCB-1260. The ML for analysis of total polychlorinated biphenyls (PCBs) must be less than or equal to 0.5 µg/L.

Table 3: Effluent Flow Limitation¹

Effluent Flow	Effluent Limitation
	0.432 MGD

Table 3 Notes:

- 1: The following abbreviations are used in Table 3, above:
a: MGD = million gallons per day
- 2: The limitation type for effluent flow is daily maximum.

Table 4: pH Limitations¹

Receiving Water Class	Effluent Limitation ²
Freshwater	6.5 to 8.3 SU

Table 4 Notes:

- 1: The following abbreviations are used in Table 4, above:
a: SU = standard units
- 2: The limitation type for pH is range. The sample type required for pH is grab.

Table 5: Temperature Limitations¹

Receiving Water Class		Effluent Limitation ²	ΔT Limitation
Freshwater	Class B	Not Required	Not Required

Table 5 Notes

1: The following abbreviations are used in Table 5, above:

a: °F = degrees Fahrenheit

b: ΔT = change in temperature

c: \leq = less than or equal to

2: The limitation type for temperature is daily maximum. The ample type required for temperature is grab.

3: Change in temperature from background shall be determined by subtracting the temperature of the effluent from the temperature of the receiving water measured at a point immediately upstream of a discharge's zone of influence at a reasonably accessible location.

Table 6: Additional Requirements

Parameter ²	Effluent Limitation ³
Aluminum	Report $\mu\text{g/L}$
LC ₅₀	Report %

Table 6 Notes:

1: The following abbreviations are used in Table 6, above:

a: $\mu\text{g/L}$ = micrograms per liter

b: LC₅₀ = lethal concentration 50% test endpoint

c: % = percent

2: Total recoverable aluminum must be analyzed. One acute whole effluent toxicity test must be conducted no later than 30 days following authorization to discharge. See Part 4.1.6 of the RGP and Attachment A: Whole Effluent Toxicity Test Procedure and Protocol.

3: Monitor-only requirement. Minimum level required for aluminum is 87 $\mu\text{g/L}$. WET test results must be submitted to EPA in accordance with Part 4.6.1 of the RGP upon completion.