

ARLINGTON CONSERVATION COMMISSION

APPROVAL ORDER OF CONDITIONS 869 Massachusetts Ave, AHS Rebuild Project DEP FILE NO. 091-0323

Stormwater

51. The Applicant shall submit an annual affirmation that a contract with a third party contractor for maintenance of the underground storage chambers and approved water quality units is in place. All other structural stormwater BMPs shall be maintained in accordance with the approved Operation and Maintenance plans. It is sufficient to email the Conservation Agent with a statement of affirmation, and the statement must be submitted by December 31 each year. **This shall be a continuing condition that survives the expiration of this permit /Order and shall be included in any Certificate of Compliance as a continuing condition in perpetuity.**
52. The Applicant shall submit copies of the SWPPP inspection reports to the Conservation Agent within 10 days of the date of each report.
53. The Applicant shall submit a snow storage plan to the Commission for review. No snow storage is permitted in the mitigation planting areas or within any resource areas. **This shall be a continuing condition that survives the expiration of this permit /Order and shall be included in any Certificate of Compliance as a continuing condition in perpetuity.**

Artificial Turf

54. The Applicant shall include one member of the Conservation Commission in any artificial turf field working group or group that is responsible for the oversight, management, disposal, and/or replacement of the proposed artificial turf fields. **This shall be a continuing condition that survives the expiration of this permit /Order and shall be included in any Certificate of Compliance as a continuing condition in perpetuity.**
55. When the proposed artificial turf field needs to be replaced, the Applicant shall file a new Notice of Intent to the Conservation Commission. **This shall be a continuing condition that survives the expiration of this permit /Order and shall be included in any Certificate of Compliance as a continuing condition in perpetuity.**
56. The Applicant is responsible for informing the Conservation Commission of any updated state or federal standards for artificial turf that relate to environmental impact, and water quality monitoring of stormwater or groundwater in a timely manner to the best of their knowledge. **This shall be a continuing condition that survives the expiration of this permit /Order and shall be included in any Certificate of Compliance as a continuing condition in perpetuity.**
57. The artificial turf specifications shall comply with the following standards, as outlined in Document #32 and subsequent Hearing discussions. A sample of the selected artificial turf shall be tested by an Environmental Laboratory Approval Program (ELAP)-accredited third-party independent laboratory to ensure compliance with the following performance standards. CAM 17 can be used for both turf fibers and infill materials. The referenced New York State Department of Environment and Conservation (NYSDEC) Part 375 is expected to be replaced by a future ASTM Standard Test that will be specific to turf fibers and backing materials. The referenced ASTM Standard Methods are specific to the materials included in their titles. The Massachusetts Department of Environmental Protection (MassDEP) Massachusetts Contingency Plan (MCP) methods and standards are for soil since MassDEP does not have regulated standards for artificial turf materials. Proof of testing results shall be submitted to the Conservation Commission. **This shall be a continuing condition that survives the expiration of this permit /Order and shall be included in any Certificate of Compliance as a continuing condition in perpetuity.**

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- I. Metals: CAM 17 (California Administrative Manual, Title 22): law intended to protect drinking water sources from heavy metals, includes testing and threshold requirements for 17 heavy metals of concern. Detected metals results for arsenic, mercury, antimony, barium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc shall not exceed the CAM 17 Soluble Threshold Limit Concentration (STLC) for each individual metal.
- II. Lead: The ASTM 2765 Standard Specification for Total Lead Content in Synthetic Turf Fibers: standard for testing fibers to comply with the Consumer Product Safety Improvement Act of 2008 for lead content. The current threshold is 100 mg/Kg total lead which complies to children's toy levels. Detected results for total lead in turf fibers and turf infill shall not exceed 100 mg/Kg.
- III. Metals: The ASTM 3188 Standard Specification for Extractable Hazardous Metals in Synthetic Turf Infill Materials: standard for testing fibers to comply with the Consumer Product Safety Toy Standard for heavy metals content. This method addresses health related exposures for Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium. Detected results in turf fiber and turf infill samples shall not exceed the ASTM 3188 standards for each individual metal.
- IV. Per and Polyfluoroalkyl Substances (PFAS): EPA Method 537.1 Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS) modified using Isotope Dilution technique for 18 PFAS compounds as listed in the PFAS testing table of Document #32 plus EPA Method 533 LC/MS/MS modified using Isotope Dilution for two additional PFAS compounds for a total of 20 compounds tested. NYSDEC standard for testing solids for PFAS will be used as reporting limit criteria, as follows. Sample-specific Reporting Limits shall be less than or equal to 1.0 µg/kg (NYSDEC Memorandum, March 2019, for testing of PFAS under Part 375). Detected results for 6 PFAS compounds (perfluorodecanoic acid, perfluoroheptanoic acid, perfluorohexanesulfonic acid, perfluorononanoic acid, perfluorooctanesulfonic acid, and perfluorooctanoic acid), which represent the MassDEP regulated compounds and a subset of the 20 compounds tested, shall not exceed the MassDEP MCP Method 1 Standards for S1/GW1 in both the turf fibers and the turf infill.
- V. Volatile Organic Compounds (VOCs): Detected results for VOCs in both the turf fibers and the turf infill shall not exceed the MassDEP MCP Method 1 Standards for S1/GW1 using EPA Method 8260B or 8260C Gas Chromatography-Mass Spectrometry (GC/MS) and methanol preservation (EPA Method 5035A) for MCP-regulated VOCs. Required reporting limits for non-detected compounds must be less than or equal to one half of the Method 1 Standard in µg /Kg dry weight. The MCP document "Quality Control Requirements and Performance Standards for the Analysis of Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) in Support of Response Actions under the Massachusetts Contingency Plan (MCP)," WSC-CAM-IIA, July 2010 shall be used as guidance for acceptable analysis of VOCs in the artificial turf materials and for the required VOC analyte list (Table II A-2 of WSC-CAM-IIA).
- VI. Semi Volatile Organic Compounds (SVOCs): Detected results for SVOCs in both the turf fibers and the turf infill shall not exceed the lower of the MassDEP MCP Method 1 Standards for S1/GW1 using EPA Method 8270D Gas Chromatography-Mass Spectrometry (GC/MS) for MCP-regulated SVOCs or the anticipated ASTM Standard 65799 for Polyaromatic Hydrocarbons (PAHs), which are a subset of the MCP-regulated SVOCs. The ASTM Standard was not yet released as of the date of this Order of Conditions. The full-list of MCP-regulated SVOCs must be tested in the artificial turf material. Required reporting limits for non-detected compounds

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must be less than or equal to one half of the Method 1 Standard in $\mu\text{g}/\text{Kg}$ dry weight or as specified in the ASTM Standard for PAH compounds. The MCP document "Quality Control Requirements and Performance Standards for the Analysis of Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) in Support of Response Actions under the Massachusetts Contingency Plan (MCP)," WSC-CAM-IIB, July 2010 shall be used as guidance for acceptable analysis of SVOCs in the artificial turf materials and for the required SVOC analyte list (Table II B-2 of WSC-CAM-IIB).

58. Prior to construction, the Applicant shall submit the specifications for the artificial turf infill and blade material to the Conservation Commission.