





Bk: 71797 Pg: 563 Doc: NOT Page: 1 of 14 10/26/2018 11:26 AM

Note: Pursuant to 310 CMR 40.1074(5), upon transfer of any interest in or a right to use the property or a portion thereof that is subject to this Notice of Activity and Use Limitation, the Notice of Activity and Use Limitation shall be incorporated either in full or by reference into all future deeds, easements, mortgages, leases, licenses, occupancy agreements or any other instrument of transfer. Within 30 days of so incorporating the Notice of Activity and Use Limitation in a deed that is recorded or registered, a copy of such deed shall be submitted to the Department of Environmental Protection.

M.G.L. c. 21E, § 6 and 310 CMR 40.0000

Disposal Site Name: 500 Walden Street, Concord, MA 01742

DEP Release Tracking Number: 3-30648

This Notice of Activity and Use Limitation ("Notice") is made as of this 18th day of October, 2018, by Concord-Carlisle Regional School District, together with its successors and assigns (collectively "Owner").

WITNESSETH:

WHEREAS, the Concord-Carlisle Regional School District is the owner(s) in fee simple of those certain parcels of land located in Concord, Middlesex South County, Massachusetts with the buildings and improvements thereon, pursuant to a deed recorded with the Middlesex South County Registry of Deeds in Book 9229, Page 160;

WHEREAS, said parcel of land, which is more particularly bounded and described in Exhibit A, attached hereto and made a part hereof ("Property") is subject to this Notice of Activity and Use Limitation. The Property is shown on a plan recorded in the Middesex South County Registry of Deeds in Plan Book 2018, Plan 856;

WHEREAS, the Portion of the Property comprises all of a disposal site as the result of releases of oil and/or hazardous material. Exhibit B is a sketch plan showing the relationship of the Portion of the Property subject to this Notice of Activity and Use Limitation to the boundaries of said disposal site existing within the limits of the Property and to the extent such boundaries have been established. Exhibit B is attached hereto and made a part hereof; and

WHEREAS, one or more response actions have been selected for the Portion of the Disposal Site in accordance with M.G.L. c. 21E ("Chapter 21E") and the Massachusetts Contingency Plan, 310 CMR 40.0000 ("MCP"). Said response actions are based upon (a) the restriction of human access to and contact with oil and/or hazardous material in soil and/or (b) the restriction of certain activities occurring in, on, through, over or under the Portion of the Property. A description of the basis for such restrictions, and

CDW Consultants 6 Huron Dr. Natick, MA 01760 the oil and/or hazardous material release event(s) or site history that resulted in the contaminated media subject to the Notice of Activity and Use Limitation is attached hereto as Exhibit C and made a part hereof;

NOW, THEREFORE, notice is hereby given that the activity and use limitations set forth in this Notice of Activity and Use Limitation are as follows:

- 1. Activities and Uses Consistent with Maintaining No Significant Risk Conditions. The following Activities and Uses are consistent with maintaining a Permanent Solution and a condition of No Significant Risk and, as such, may occur on the Portion of the Property pursuant to 310 CMR 40.0000:
 - (i) Use of the Portion of the Property as a vacant lot, parking area, park, recreational area and/or for industrial or commercial use, provided that direct contact with contaminated soil located at the Portion of the Property remains restricted through the use and maintenance of a cap, described in Paragraph 3, Obligations and Conditions;
 - (ii) Soil excavation activities at the Portion of the Property, provided that the activities are conducted in accordance with the Obligations and Conditions set forth in Paragraph 3 below and the activities ensure prompt repair/replacement of the cap, if disturbed;
 - (iv) Such other activities or uses which, in the Opinion of a Licensed Site Professional, shall present no greater risk of harm to health, safety, public welfare or the environment than the activities and uses set forth in this Paragraph; and
 - (v) Such other activities and uses not identified in Paragraphs 2 as being Activities and Uses Inconsistent with maintaining No Significant Risk Conditions.
- 2. <u>Activities and Uses Inconsistent with Maintaining No Significant Risk Conditions</u>. The following Activities and Uses are inconsistent with maintaining a Permanent Solution and a condition of No Significant Risk pursuant to 310 CMR 40.0000, and, as such, may not occur on the Portion of the Property:
 - (i) Use of the Portion of the Property as a residence;
 - (ii) Growth of fruits and vegetables or any other agricultural product for human consumption at the Portion of the Property;
 - (iii) Planting of any deep-rooted vegetation (i.e., with roots typically extending greater than 1 foot below grade);
 - (iv) Any use of the Portion of the Property where the integrity of the cap does not meet the requirements set forth in Paragraphs 3(i)-(ii) below;
 - (v) Any excavation activity that may result in the disturbance and relocation of contaminated soil currently located below the cap (located at depths greater than 22 inches below unpaved areas and immediately below paved/concrete areas in

the skatepark at the Portion of the Property) that are not supervised by a Licensed Site Professional and performed in accordance with the MCP and the obligations and conditions set forth in Paragraphs 3(i)-(ii) below; and

- (vi) The alteration of the cap installed at the Portion of the Property as described in Paragraphs 3(i)-(ii) below; unless a Licensed Site Professional Opinion is rendered which states that such alteration is consistent with maintaining a condition of No Significant Risk.
- 3. <u>Obligations and Conditions</u>. The following obligations and/or conditions are necessary and shall be undertaken and/or maintained at the Portion of the Property to maintain a Permanent Solution and a condition of No Significant Risk:
 - (i) Asphalt pavement and concrete pavement in the absence of a 22" soil cap described in Paragraph 3(ii)shall be maintained such that the integrity of the cap is not compromised as follows:
 - a. Asphalt and concrete surfaces in the absence of a 22 inch soil cap, described in Paragraph 3(ii), shall be maintained at a minimum thickness of 4 inches on top of 6 inches gravel base for a total cap thickness of at least 10 inches.
 - b. If replacement or repair of asphalt or concrete surfaces is required, disturbance of the underlying soil shall be limited to 12 inches below the surface being replaced or repaired and the surface material (asphalt or concrete) shall be repaired or replaced with a comparable barrier.
 - c. Repairs shall be initiated within 72 hours of discovery of damage to the cap.
 - (ii) All landscaped and/or vegetated areas within the cap shall be maintained such that the integrity of the cap is not compromised as follows:
 - a. Landscaped and/or vegetated areas shall be maintained with a minimum thickness of 18 inches of clean fill over an orange filter fabric marker layer, over a minimum thickness of 4 inches of 1-1/2 inch washed gravel, over a layer of filter fabric, and over a geosynthetic clay liner which meets or exceeds ASTM D5891 Standard for Fluid Loss of Clay Liner for a total cap thickness of at least 22 inches.
 - If vegetation is to be planted or removed, excavation and/or removal of existing root systems shall not extend beyond 22 inches below existing grade.
 - c. Repairs shall be initiated within 72 hours of discovery of damage to the cap.
 - (iii) The cap surface must be inspected on an annual basis to confirm that the Obligations and Conditions in Paragraphs 3(i)-(ii) above are being met. The Owner shall maintain records of annual inspections.
 - (iv) Prior to the performance of any excavation activity which may result in the disturbance of contaminated soil, currently located below the cap (located at

minimum depths of 12 inches in paved/concrete areas and 22 inches below grade for landscaped areas), a written Health and Safety Plan ("HASP") and a Soil Management Plan ("SMP") must be developed and implemented in accordance with the guidelines set forth below:

A HASP must be prepared by a Certified Industrial Hygienist or other qualified individual sufficiently trained in worker health and safety requirements. The HASP should specify the type of personal protection (i.e., clothing, respirators), engineering controls, and environmental monitoring necessary to prevent worker exposures to contaminated soil through dermal contact, ingestion, and/or inhalation. On-site workers who may come in contact with the contaminated soil should be appropriately trained on the requirements of the HASP, and the plan must be available on-site throughout the course of a project.

A SMP must be prepared and implemented by a Licensed Site Professional. The SMP should describe appropriate soil excavation, characterization, handling, storage, transport, and disposal procedures, including provisions for groundwater management if encountered. The SMP should include a description of the engineering controls and monitoring procedures necessary to ensure that workers and receptors in the vicinity are not affected by fugitive dust or particulates. Onsite workers who may come in contact with the contaminated soil and/or groundwater should be appropriately trained on the requirements of the SMP, and the plan must be available on-site throughout the course of a project. The SMP must also address site security to eliminate a potential exposure pathway to the public due to construction below the cap and the restoration of the cap at the completion of construction.

- 4. <u>Proposed Changes in Activities and Uses</u>. Any proposed changes in activities and uses at the Portion of the Property which may result in higher levels of exposure to oil and/or hazardous material than currently exist shall be evaluated by a Licensed Site Professional who shall render an Opinion, in accordance with 310 CMR 40.1080, as to whether the proposed changes are inconsistent with maintaining a Permanent Solution and a condition of No Significant Risk. Any and all requirements set forth in the Opinion to meet the objective of this Notice shall be satisfied before any such activity or use is commenced.
- 5. <u>Violation of a Permanent or Temporary Solution</u>. The activities, uses and/or exposures upon which this Notice is based shall not change at any time to cause a significant risk of harm to health, safety, public welfare, or the environment or to create substantial hazards due to exposure to oil and/or hazardous material without the prior evaluation by a Licensed Site Professional in accordance with 310 CMR 40.1080, and without additional response actions, if necessary, to maintain a condition of No Significant Risk.

If the activities, uses, and/or exposures upon which this Notice is based change without the prior evaluation and additional response actions determined to be necessary by a Licensed Site Professional in accordance with 310 CMR 40.1080, the owner or operator of the Property subject to this Notice at the time that the activities, uses and/or exposures change, shall comply with the requirements set forth in 310 CMR 40.0020.

6. <u>Incorporation Into Deeds, Mortgages, Leases, and Instruments of Transfer.</u> This Notice shall be incorporated either in full or by reference into all future deeds, easements, mortgages, leases, licenses, occupancy agreements or any other instrument of transfer, whereby an interest in and/or a right to use the Property or a portion thereof is conveyed in accordance with 310 CMR 40.1074(5).

Owner hereby authorizes and consents to the filing and recordation and/or registration of this Notice, said Notice to become effective when executed under seal by the undersigned Licensed Site Professional, and recorded and/or registered with the appropriate Registry(ies) of Deeds and/or Land Registration Office(s).

WITNESS the execution hereof under seal this ______ day of ______ day of _______, 2018.

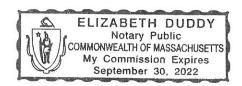
CONCORD-CARLISLE REGIONAL SCHOOL DISTRICT

By: Laure funter

Name: Dr. Laurie Hunter Title: Superintentent

COMMONWEALTH OF MASSACHUSETTS

Middle sex, ss	10.18.,2018	
On this <u>loth</u> day of <u>Chiber</u> , 2018, before me, the undersigned notary public, personally appeared <u>AMPLE Hentler</u> (name of document signer), proved to me through satisfactory evidence of identification, which were <u>PEKSONALLY KNOW</u> , to be the person whose name is signed on the preceding or attached document, and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.		
(as partner for, a partner for, a partner for,	partnership)	
(as for		
(as attorney in fact for		
as Superintendent for Concord-	Carlisle Regional School District, a municipal non profit	
corporation delication		
(official sign	ature and seal of notary)	



The undersigned Licensed Site Professional hereby certifies that in his Opinion this Notice of Activity and Use Limitation is consistent with a Permanent Solution and maintaining a condition of No Significant Risk.

Date: October 18, 2018



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Brian J. Miller, LSP

COMMONWEALTH OF MASSACHUSETTS

middlesex, ss		October 18 2018
personally ap me through sa to be the pe	peared <u>SK. AN WILLER</u> atisfactory evidence of identifica rson whose name is signed or	before me, the undersigned notary public, (name of document signer), proved to tion, which were the preceding or attached document, and voluntarily for its stated purpose.
(as partner for	r, a partnership)	
(as	for, a cor	poration)
(as attorney ir	n fact for, th	ne principal)
(as Cop	for	he) <u>Corpration</u>)
MOIN	(official signature and se	eal of notary)
0	NANCY T. DAY	

Upon recording, return to

NANCY T. DAY Notary Public Commonwealth of Massachusetts My Commission Expires October 19, 2023

Concord-Carlisle Regional School District 120 Meriam Road Concord, MA 01742 BK 8 6 2 6 398

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DEC & 1955 432 REC. 4 H 53M P M \$1460

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss.

Town of Concord

ORDER OF TAKING

WHEREAS by a vote of the Annual Town Meeting duly called and held on the fourteenth day of March, 1955, the Board of Soloctmen was authorized and empowered on behalf of the Town to acquire, by purchase, eminent domain or otherwise, certain land, a portion of which is hereinafter described, for school purposes, and an appropriation of money was made for such purpose as will more fully appear by reference to the enabling vote, an attested copy of which is hereto annexed,

NOW, THEREFORE, we, the undersigned Board of Selectmen of the Town of Concord, do hereby and by virtue of the authority of Ceneral Laws (Ter. Ed.) c. 79 take in fee for school purposes the land in said Concord bounded and described as follows:

SOUTHWESTERLY by the Concord Turnpike Bypass one thousand thirtyseven (1037) feet, more or loss; WESTERLY and SOUTHERLY by land of Boston and Maine Railroad, Fitch-

burg Division, by varying courses, a total of eight hundred eighty-nine and 7/10 (889.7) feet, more or less:

NORTHERLY

three hundred sixty-seven and 10/100 (367.10) feet, three hundred sixty-seven and 10/100 (367.10) feet,
WESTERLY three hundred sixty-three and 37/100 (363.37)
feet and NOHTHWESTERLY by four courses, respectively
two hundred ninety-one and 11/100 (291.11) feet,
four hundred fourteen and 60/100 (414.60) feet,
eighty-three and 19/100 (83.19) feet and one hundred
nine and 66/100 (109.66) feet, all by land of H.
Theodore and Roed O. Beharrell;
NORTHEASTERLY three hundred ten (310) feet and NORTHWESTERLY three
hundred (300) feet, both by land now or formerly of
Gaetano Tarento:

Gaetano Taranto;

Gaetano Taranto;

NORTHEASTERLY by Thoreau Street one hundred (100) feet;

SOUTHEASTERLY two hundred nine and 88/100 (209.88) foet, EASTERLY five hundred seventy-one and 56/100 (571.56) feet, and NORTHEASTERLY five hundred twenty-six and 85/100 (526.85) feet, all by land now or formerly of John Mancuso and Florence Mancuso;

by land now or formerly of Salvatore Sorrenti and Betta Sorrenti three hundred eighty (380) feet;

SOUTHEASTERLY ten (10) feet, NORTHEASTERLY eighty (80) feet and NORTHWESTERLY one hundred seventy (170) feet, all by land now or formerly of Alice C. Langille;

SECTION IN RECORD BOOK ...

NORTHEASTERLY by Thoreau and Walden Streets three hundred eighty (380) feet;

SOUTHWESTERLY ninety-nine (99) feet, SOUTHEASTERLY five hundred thirty-two (532) feet, SOUTHERLY four hundred forty-six and 70/100 (446.70) feet, and EASTERLY four hundred thirty-seven and 5/10 (437.5) feet, all by land now or formerly of Walde P. Lapham; and by land now or formerly of Mabel F. Dunn four hundred seventy-eight (478) feet.

The above described Land is shown as Lot A containing 56.3 acres more or less and Lot B containing 13.9 acres more or less, both on "Flan of Land in Concord, Mass.", by Laurence A. Murray, Surveyor, dated June 1, 1955 and to be recorded herewith.

This taking includes all trees, walks, fonces, and structures, if any.

Said land is supposed to belong to the following persons, namely:

Lot A - Waldo P. Lapham Lot B - Gaetano Taranto

The aforesaid land is taken whether the ewnership of the said land is as herein stated or not, and we award damages to the owners thereof by reason of said taking hereby made as follows:

Waldo P. Lapham - \$40,000.00 Gastano Taranto - \$10,000.00

No betterments are to be assessed for the improvements for which this taking is made.

WITNESS our hands and soals at Concord, Massachusetts this 21st day of October, 1955.

Architell U. Ferrance

Cahareles W. allen

Selectmen of the Town of Concord

EXHIBIT A-1

Legal Description of AUL Area

Commencing at a concrete bound at the corner of the locus parcel; thence

- S 37°06'24" E a distance of 218.33', to the point of beginning; thence;
- S 27°56'43" E a distance of 52.54' to a point, thence;
- S 46°29'33" W a distance of 149.87' to a point, thence;
- S 14°39'22" E a distance of 50.09' to a point, thence;
- S 10°26'00" W a distance of 173.75' to a point, thence;
- S 75°26'06" W a distance of 340.98' to a point, thence;
- S 62°14'43" W a distance of 74.48' to a point, thence;
- N 80°13'49" W a distance of 155.41' to a point, thence;
- N 09°44'24" W a distance of 43.61' to a point, thence;
- N 36°10'28" E a distance of 306.30' to a point, thence;
- N 62°39'18" E a distance of 92.57' to a point, thence;
- N 35°28'59" E a distance of 95.58' to the point of beginning.

Containing 4.13 acres more or less.

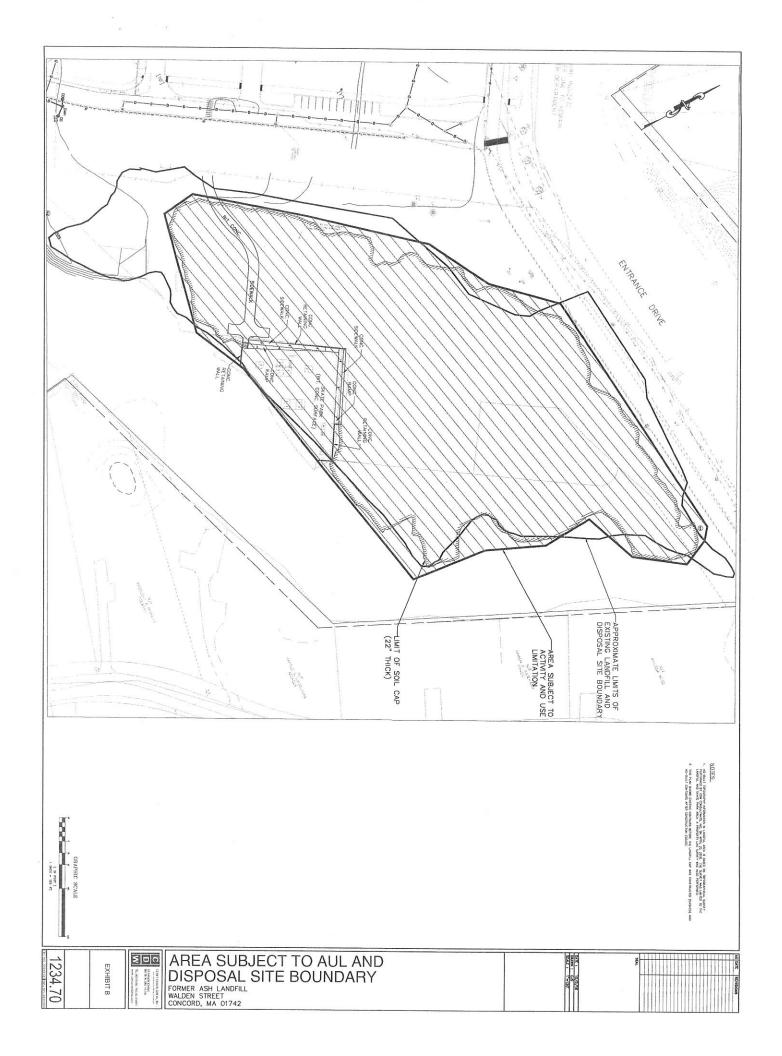


EXHIBIT C

Narrative Describing the Basis for the AUL

The Site consists of an approximate 4.47 acre portion of a much larger parcel of land located at 500 Walden Road in Concord, Massachusetts. The parcel is shown on the Town of Concord's Tax Assessor's Map 11H as Block 298. The Site includes the limits of the landfill which include, but are not limited to a skate park, grassy areas and a portion of a paved access road leading from the student parking lot to the skate park. The Site is bounded to the north by an access road to CCHS and open space; to the east by a grassy area, then residential housing; to the south by wooded areas, and State Highway Route 2; and to the west and southwest the High School and a parking lot. It is located at Latitude 42°26'55.3"N, Longitude 71°20'34.4"W and Universal Transverse Mercator (UTM) coordinates 4702158 mN, 307182 mE. The AUL area comprises 179,942 square feet (4.13 acres).

Release and Regulatory History

The Site originally operated as a gravel pit (Macone Sand Pits) until the 1920's then as a town dump until the 1950's. A portion of the gravel pit as also used as a burn dump through the 1950's. A high school was built on the property in 1959 and the Site was used as a paved parking lot until the construction of a new high school in 2016.

Several subsurface investigations were conducted at the Site during the construction of the new high school. The Site was reported to MassDEP as a 120-day release on February 6, 2012 after cadmium, chromium, copper, lead, and nickel were detected in soil at concentrations exceeding applicable MCP Reportable Concentrations (RCs). RTN 3-30648 was issued by MassDEP. MassDEP issued a second RTN for the Site on July 30, 2012 after the results of a subsequent investigation indicated 1,3,5-trimethylbenzene, arsenic, C11-C22 aromatic hydrocarbons, naphthalene, styrene, and zinc in soil in excess of applicable RCs. RTN 3-30999 was issued by MassDEP for that release. In all, 125 soil borings were completed to delineate the boundaries of the landfill with most analyses for lead.

On February 13, 2013, CDW submitted a Phase I – Initial Site Investigation and Tier Classification on behalf of the Concord Public Schools. The Site was classified as a Tier II Disposal Site and the RTNs were linked with future response actions occurring under primary RTN 3-30648.

On December 16, 2013, CDW submitted a Phase II – Comprehensive Site Assessment and Phase III – Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives on behalf of Concord Public Schools. Soil and groundwater data from several previous subsurface investigations were used to support the conclusions of the Phase II. A modified Release Notification Form was submitted concurrent with the Phase II-III submittal that included the constituents 2-Methylnapthalene, Acenaphthene, Phenanthrene, Benzo(a)pyrene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)anthracene, Indendo(1,2,3-cd)pyrene, and Dibenzo(a,h)anthracene which were not previously reported. CDW conducted a review of the scoring under the Tier Classification submitted in February 2013, and no changes in the site score were needed.

Five years of quarterly groundwater monitoring (2013 to 2018) were conducted at the request of the Concord Water Department to track any effects of the school construction project on groundwater located within a Zone II Area for one of the Town's municipal wells.

In December 2014, a revised RNF for the detection of soluble arsenic in groundwater above RCGW-1 standards was submitted to MassDEP. As a result of this, the Site was re-classified as a Tier I disposal site.

Remedial activities were implemented from August 2017 to December 2017 and consisted of the construction of an approximate 3.5 acre cap over most of the landfill. In unpaved areas, the cap consists of a low permeability layer, a drainage layer consisting of crushed stone, a marker layer, common fill and loam with field grass. In the paved area (skate park), the cap consists of 4 inches of asphalt over subgrade material.

Description of Contaminated Media

Elevated concentrations of metals exist in soils below a depth of 3 feet and are likely the result of metals commonly found in ash. PAHs, petroleum related VOCs and petroleum have also been detected in soil within the landfill. Dissolved arsenic, nickel, and zinc have been detected consistently in groundwater. Dissolved arsenic in upgradient groundwater was considered not related to former Site activities. Groundwater within the landfill is located at depths between approximately 18 and 26 feet below the ground surface, below the depth of landfill soils.

Appropriateness of the AUL

In accordance with 310 CMR 40.1012(2), an AUL shall be required at all disposal sites for which a Permanent Solution and the risk characterization pursuant to 310 CMR 40.0900, used to support the Permanent Solution, are based upon the restriction or limitation of Site Activities and Uses to achieve or maintain a level of No Significant Risk. The Method 3 Risk Characterization and Permanent Solution for the Site are based on the restriction of the future use of the Site to a vacant lot, parking area, park, and/or for industrial or commercial use, provided that the cap is maintained to restrict direct contact with contaminated soil located below the cap without LSP oversight; therefore, this AUL, which limits future use of the Site to a vacant lot, parking area, park and/or for industrial or commercial use and specifies the requirements to maintain the AUL, is appropriate to maintain a condition of No Significant Risk and a Permanent Solution at the Site.

EXHIBIT D

NOTICE OF ACTIVITY AND USE LIMITATION: CERTIFICATION PURSUANT TO 310 CMR 40.1074(2)(c) RTN 3-30648

- 1. **Signatory Authority Certification.** Pursuant to 310 CMR 40.1074(2)(c), if "a person(s) signing the Notice of Activity and Use Limitation is not an individual signing on his/her own behalf, but rather on behalf of an entity...or as trustee, executor, or attorney in fact, documentation consistent with conveyancing standards and practices verifying that the person(s) signing the Notice of Activity and Use Limitation has the authority to sign such document shall be attached as an exhibit to the Notice of Activity and Use Limitation. By signing this Certification, Laurie Hunter, certifies that she is the Superintendent for the Concord Carlisle Regional School District a duly incorporated Massachusetts municipal non-profit corporation, and is authorized to execute the Notice of Activity and Use Limitation.
- 2. **Ownership Certification.** Pursuant to 310 CMR 40.1074(2)(c)(1), Laurie Hunter, as the Superintendent, certifies that the Concord-Carlisle Regional School District, identified on the Notice of Activity and Use Limitation as the owner of the property subject to the AUL, owned such property on the date that the Notice of Activity and Use Limitation was recorded.
- I, Laurie Hunter, Superintendent, Concord-Carlisle Regional School District, attest under pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this submittal, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the person or entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate or incomplete information.

Signature Date

By:

Laurie Hunter, Superintendent, Concord-Carlisle Regional School District 120 Meriam Road Concord, MA 01742 (978)341-2490

Record Interest Holders for AUL Parcel

Address: 500 Walden Street, Concord, MA

Owner:

Concord-Carlisle Regional School District 120 Meriam Road Concord, MA 01742 Attn: Ms. Laurie Hunter

