1.0 EXECUTIVE SUMMARY

This is a Draft Environmental Impact Statement ("DEIS") prepared pursuant to the requirements of the New York State Environmental Quality Review Act ("SEQRA") for an action being proposed by the Village of Cayuga Heights ("VCH" or "Village") referred to herein as the Cayuga Heights Deer Management Plan ("CHDMP").

This DEIS evaluates potential significant environmental impacts associated with the implementation of CHDMP, discusses possible mitigation measures and possible alternatives that would achieve the same objectives, and a no action alternative. This document incorporates existing studies previously undertaken by the Village of Cayuga Heights or volunteer citizen groups.

Site Location

The land within the municipal boundaries of the Village of Cayuga Heights is the site of the proposed action. The VCH is an incorporated Village located in the Town of Ithaca, Tompkins County, New York. The Village lies at the southern end of Cayuga Lake, north of the City of Ithaca and south of the Village of Lansing.

Project Background, Public Purpose and Need

In the late 1990's Cornell University conducted a survey of 438 property owners in the Cayuga Heights area to ascertain their view on the deer population. There were mixed views on the white tail deer population in the Village. A study committee was subsequently formed with a view towards reducing the deer population. Efforts were made at deer sterilization in the early 2000s, but ultimately did not result in long term herd reduction.

At the present time, the estimated population of deer in the 1.8 square mile Village of Cayuga Heights ranges between 160 and 200.

This density of deer is very high and if left unattended will continue to impact biodiversity and contribute to undesirable deer/human conflicts such as vehicular damage, potential injuries to animals and people, increased incidence of landscape damage and water contamination through substantially higher levels of untreated wastes in stormwater runoff.

It is the intent of the VCH Deer Management Plan to address these concerns. With the area of Cayuga Heights being 1.8 square miles, to minimize losses in animal and plant diversity and these other impacts, the Village has determined that the deer population in the Village would need to be a total of 30 or fewer.

Description of Action

Acknowledging the need to reduce the number of deer in the Village of Cayuga Heights, the Village Board of Trustees is considering implementation of a proposal consistent with the recommendations of the Village's Deer Remediation Advisory Committee (the DRAC) for a Phased Options Approach ("POA") to deer management. The DRAC recommends that the Village begin the POA with the surgical sterilization of approximately 20-60 does (female deer) within a two-year period, followed by culling of the remainder of the herd in the year subsequent to completion of the sterilization program, followed by a program of ongoing maintenance of the herd size as necessary through further sterilization and culling. It is expected that this program will, once implemented, result in a reduced and stable deer herd in approximately three to five years.

A more detailed description of the protocols for sterilization and culling is provided in Chapter 4 of this DEIS.

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Approvals Needed

Approvals will be required from the NYSDEC (pursuant to Environmental Conservation

Law Section 11-0521) for the sterilization program and the culling program. The

NYSDEC is therefore an involved agency under the provisions of SEQRA.

The VCH Board of Trustees will need to take action on the final details of the deer

management program and fund its activities.

No other agency approvals have been identified.

Potential Impacts - Land Use

Since most of the land in the VHC is privately owned, land use impacts from

implementation of the Cayuga Heights Deer Management plan will involve a short term

disruption to suburban activities when the sterilization and culling activities actually

occur.

Sterilization activities are not expected to have any long term, adverse impact on

residents' ability to engage in the customary land use activities in the vicinity of the

netting sites or elsewhere in the Village.

The impacts on land use associated with culling activities would be short-term and

occur only during the actual culling events. Culling sites would be closely monitored to

prevent human activity during the operation. During those times, land use activities in

the culling sites will be highly restricted. Carrying out the operation at night is expected

to reduce the impact of the restrictions. Noise associated with firearm discharge will

represent a short term disruption to the nighttime ambient noise conditions, which is

typically low in the suburban environment.

Those deer taken by culling will be processed for food. There will be an immediate

reduction in deer numbers resulting from the culling operation. The smaller deer

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population will likely reduce deer/car accidents, which is a benefit for the remaining deer

(deer are often injured and not killed by such accidents) and a benefit to the Village.

It is expected that in the long term, local vegetative diversity and wildlife habitat will

improve and therefore more food would be available to remaining deer than is currently

present due to the over-browsing that has occurred in the deer's range.

Culling activities are likely to involve the discharge of firearms in the VCH. Mr. Anthony

Denicola, the owner of a firm that carries out deer culling activities, advises that in 15

years of such work and the culling of some 9,000 to 10,000 deer, there has never been

an incident of harm to people, nontarget animals or property in connection with said

activities (personal communication, 9/28/10).

The noise from firearms will represent a short term disruption to local ambient

conditions, especially if it occurs after dark or in the pre-dawn hours. Given the goals for

annual culling numbers, the actual number of firearm retorts will be minor and occur

over a relatively short period of time.

With no record of incidents, and oversight of the operations by the NYSDEC and local

police, the likelihood of a significant adverse impact to normal human activities from

culling activities as anticipated and described herein is projected to be exceedingly low.

Impacts on Public Policy

The proposed action will require a permit from the New York State Department of

Environmental Conservation. It is expected that the permit will have a duration as well

as specific conditions attached to it that will represent a variance from current State and

Village code relative to deer management.

Thus, the proposed action represents a policy change that will permit the sterilization

and culling of deer in the Village - activities that are not currently permitted under New

York State law.

Community Viewpoints

Because of the polarization of views on the matter of deer density and management, it

is likely that any action taken (including no-action) will have some impact on community

views.

Actual implementation of the proposed program may result in deeper polarization within

the community and possibly further protest and objection. It is possible that

implementation of the proposed program will require involvement of the VCH police

department to enforce the law and protect public safety.

While the culling of deer, as proposed by the Village, may be experienced as a potential

significant impact to the social conscience of a portion of the VCH community, under

the rules of the New York State Environmental Quality Review Act, community

controversy is not criteria for determining significance.

Potential Socioeconomic Impacts

The proposed program of sterilization and culling is budgeted to cost approximately

\$150,000 per year. These expenditures will occur for a five-year term and will bring

about most of the sterilization and culling anticipated as part of this program. The

estimated cost allocated for sterilizing a deer is approximately \$1,100 per animal and

may be higher or lower depending upon the party selected to carry out the work. The

estimated cost of culling is approximately \$500 dollars per animal. In addition to the

costs of sterilization and culling, the budget would also cover the salary of a deer

management professional, a modeling/tracking study and a contingency amount to

cover unforeseen expenses.

The result of a successful sterilization and culling program will be a stabilized deer herd

of approximately 30 animals. The overpopulation issues will be substantially reduced

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and it is possible that the costs associated with the high density deer population

(diminished plant and animal diversity and habitat, vehicular accidents, tick borne

diseases, landscape loss, etc.), as discussed in Chapter 3 will be substantially reduced

as well.

Mitigation Measures

Mitigation measures have been incorporated into the project plans as presently set forth

and those measures are intended to minimize the impacts of the project. The reduction

of the deer herd, while representing a short term loss of deer, will actually have multiple

beneficial impacts as set forth herein, that include potentially reduced habitat impacts,

reduced vehicular accident rates, reduced landscape loss, and reduced incidents of

Lyme disease.

Project plans already include numerous provisions to protect public safety.

No significant unavoidable adverse impacts have been identified in connection with the

proposed deer management plan. Therefore, under the provisions of the New York

State Environmental Quality Review Act, no additional mitigation measures are

warranted.

Alternatives Reviewed

No Action Alternative

Under this alternative, no management of the deer herd would take place. No Action

will result in continued growth of the deer herd in Cayuga Heights. Given the complaints

about the deer population and the ongoing impacts of biodiversity and habitat loss,

deer/vehicle incidents, landscape damage and tick borne diseases, the No Action

alternative will simply exacerbate the current situation.

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It is possible that if the herd grows significantly, lack of food will either result in wasting

disease or result in increased deer population in areas outside the VCH.

If the No Action alternative is selected, activities associated with sterilization and culling

as identified earlier in this DEIS will not occur.

While the costs of the deer management program would not be expended from the

Village budget in the No Action alternative, the ongoing costs of loss of biodiversity and

habitat, vehicular accidents, landscape loss and replacement and Lyme disease

treatment would remain similar to existing conditions or potentially increase as the

density of the deer herd increases.

The No Action alternative would likely have far more negative impact than the proposed

action.

Sterilization Only, No Culling

Under this alternative, no culling would take place and greater numbers of deer would

need to be sterilized in order to stabilize the herd at the numbers recommended by the

DRAC. This option is slower and more expensive than culling alone or the combined

approach of culling and sterilization. It would take three to five years to stabilize the

herd and herd reduction would not be evident for five to six years based on projections

by the DRAC.

No culling would take place and thus community objections to this aspect of the

proposed program would be placated. No discharge of firearms would need to occur

within the Village.

Only Culling - No Sterilization

This is the most cost effective method of reducing the size of the deer herd and also the most controversial. Maintenance of the herd would be required at a higher level, according to the DRAC, because the remaining deer will continue to breed. Culling would most likely need to be ongoing and would disrupt Village harmony for potentially an extended period. Under this alternative, the continued discharge of firearms to maintain desired herd size would take place and the circumstances associated with that activity as described earlier in this DEIS would continue on and off for the foreseeable future.

Sterilization in Combination with Culling by Trapping

At the present time, trapping and killing deer is not permitted under the wildlife regulations of the State of New York. However, if relief could be secured from that provision via the deer management permit, an alternative to using firearms to cull deer would be to trap deer and use a captive bolt gun. This device instantly kills the animal and is an acceptable form of euthanasia as per the American Veterinary Medical Association. A captive bolt gun has a steel bolt that is powered by either compressed air or a blank cartridge. The bolt is driven into the animal's brain. It has the same effect on the animal as a firearm with a live bullet. A captive bolt gun is safer than a firearm.

This is a slower process than culling and more labor intensive. Multiple traps could be employed and deer could be culled over an extended period with minor disruption to the local community.

The costs of this process are not known. If such work is carried out by a deer management person retained by the Village or the Village police, it is possible that the costs would be less expensive than retaining contractors to shoot deer. If this alternative were to be pursued, a more detailed review of costs would be warranted.