

ASCON LANDFILL SITE UPDATE

CURRENT UPDATES

- CLEAN-UP EFFORTS HAVE STOPPED.
- ASCON IS PURSUING TENTING/ENCLOSURE PERMITS AND WORK PLAN APPROVAL.
- HAMILTON BERM SLOPE CRACK EVALUATION AND PROPOSED ACTIONS.

SLOPE FAILURE CONCERN

DTSC & ASCON HAVE EVALUATED TENSION CRACKS ON THE NORTHWEST BERM

- December 31st ASCON Identified Tension Cracks on the Berm along Hamilton.
- February 6, 2020 additional Tension Cracks identified on the Berm
- DTSC has determined estimated a Medium to High Potential Risk of Slope Failure.
- DTSC and ASCON have evaluated options to repair and alleviate slope failure.

SUPPLEMENTAL COMMUNICATION

Meeting Date: 3/16/20

Agenda Item No.: 11(20-1475)

Ascon Landfill Site Slope Inspection
NW Berm Geotechnical Observations on Dec 31, 2019



TENSION CRACKS IDENTIFIED



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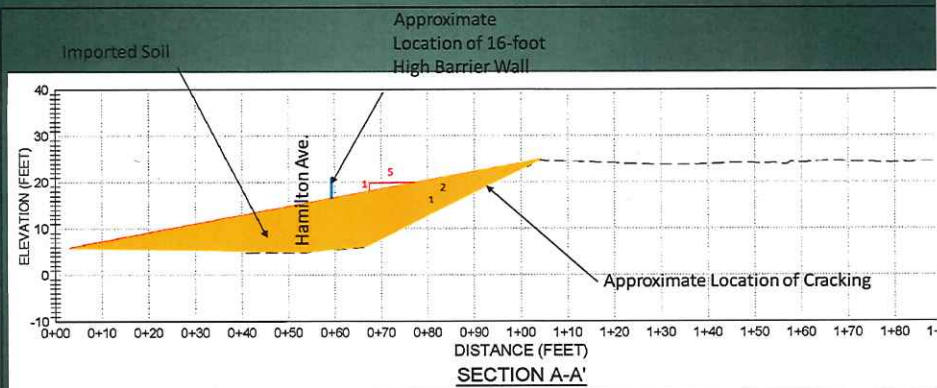


SLOPE EVALUATION

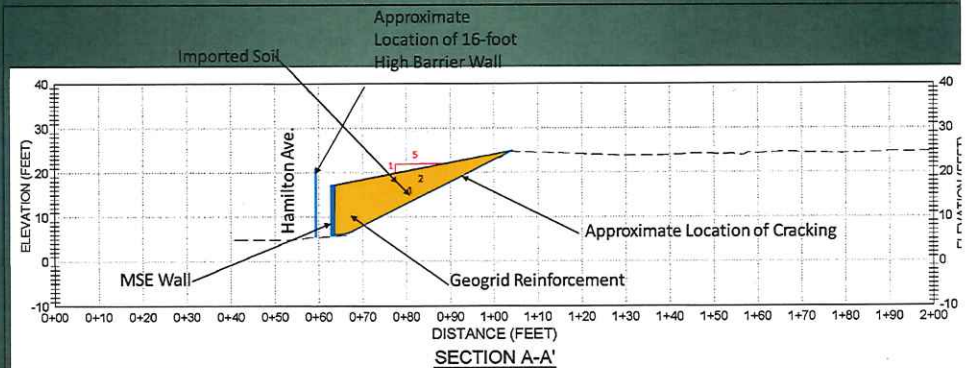
EIGHT SLOPE STABILIZATION OPTIONS EVALUATED

- SLOPE FLATTENING WITH SOIL
- SLOPE FLATTENING WITH SOIL AND MECHANICALLY STABILIZED EARTH
- TOE BUTTRESS WITH SOIL
- TOE BUTTRESS WITH RETAINING WALL
- IN-SITUE SOIL STABILIZATION
- SOIL NAILING
- SLOPE FLATTENING UNDER A TENT
- SLOPE FLATTENING BY MANAGED EXCAVATION.

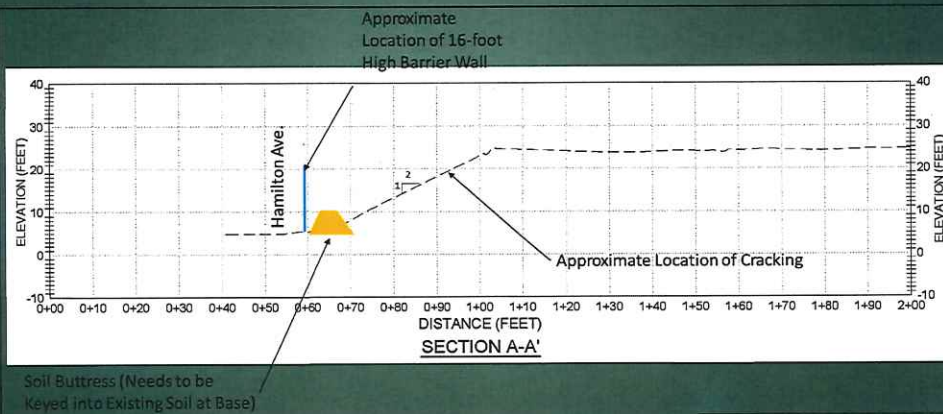
Slope Flattening with Soil



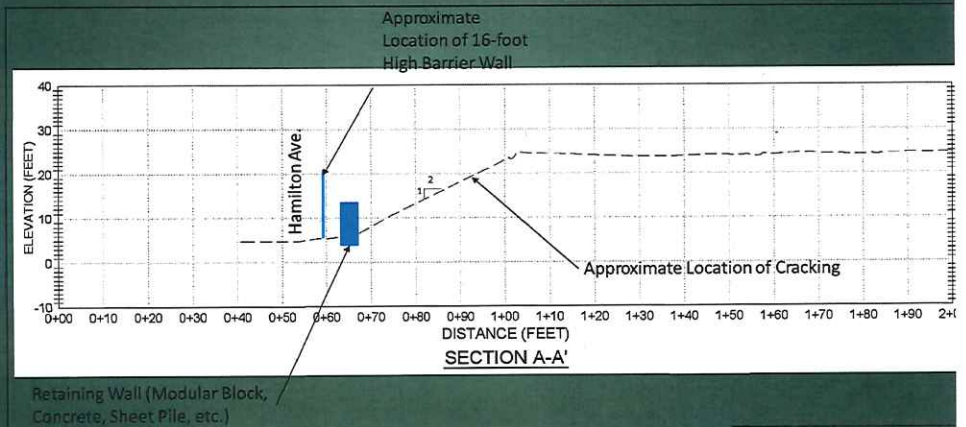
Slope Flattening with Soil and Mechanically Stabilized Earth



Toe Buttress with Soil



Toe Buttress with Retaining Wall



Soil Nailing

UTILIZES TIE-BACK SYSTEM TO HOLD BACK THE SLOPE FROM COLLAPSING

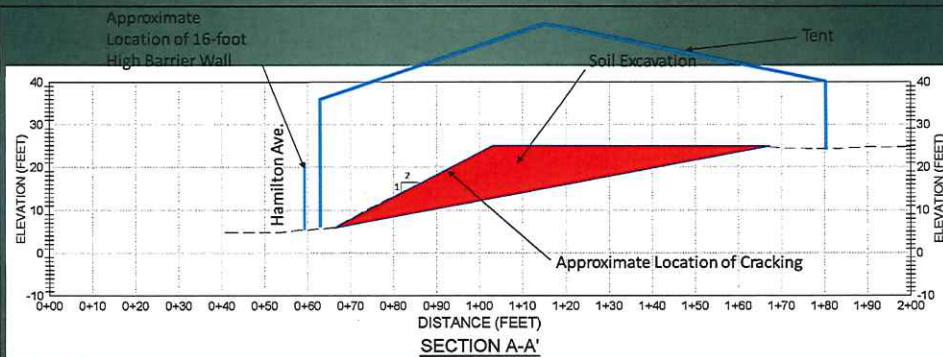
- REQUIRES STABLE AND UNIFORM SOIL TO ANCHOR THE NAILS OR TIE BACKS.
- ASCON SOIL IS UNSUITABLE FOR THIS OPTION.
 - Intermixed soil is non-uniform requiring extensive soil sampling for design
 - Current soil is low-strength and unable to support soil nails
 - Continued monitoring of the slope would continue concern of collapse
- EXTENDED TIME FRAME FOR REQUIRED DESIGN AND MOBILIZATION

In-Situ Soil Stabilization

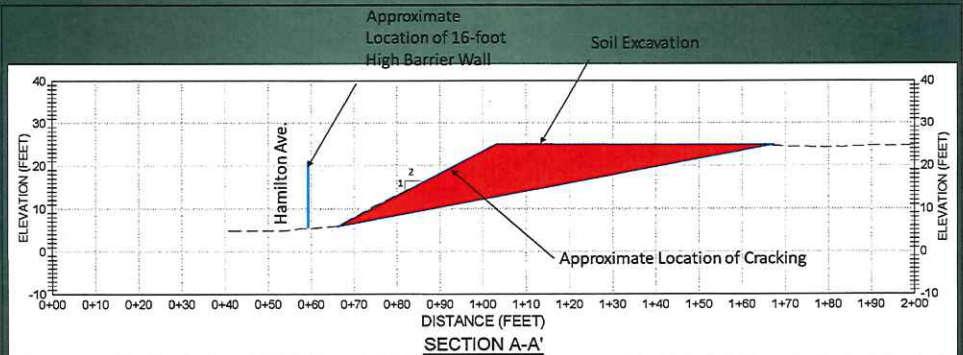
CONSISTS OF STRENGTHENING THE SOILS WITH COLUMNS OF SOIL WITH SOLIDIFIED CEMENT.

- ASCON SOIL IS UNSUITABLE FOR THIS OPTION.
 - The mixture of waste and soil on site is unsuitable to ensure stability
 - This method will add weight to the slope while the concrete/soil mixture is placed and cures increase the failure risk.
 - This solution would be temporary and require continued monitoring of the slope movement.
- EXTENDED TIME FRAME REQUIRED FOR DESIGN AND MOBILIZATION.

Slope Excavation Under a Tent/Enclosure



Managed Slope Excavation



Slope Stabilization Recommendation

DTSC IS RECOMMENDING THE MANAGED SLOPE EXCAVATION DUE TO THE FOLLOW REASONS:

- EXPEDITED STARTING SCHEDULE TO MITIGATE SLOPE INSTABILITY
- SHORTEST REMEDY FOR A PERMANENT SOLUTION
- METHODS USED TO MITIGATE THE ODOR WOULD INCLUDE
 - Managing the amount of excavation performed daily
 - Utilize Odor Controls (foam, soil, and plastic covering)

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HOW TO FIND OUT MORE INFORMATION:

- [HTTPS://ASCONHB.COM/](https://asconhb.com/)
- SIGN-UP FOR EMAIL UPDATES ON THE WEB PAGE.
- PUBLIC HOTLINE FOR NON-EMERGENCY INFORMATION: [\(714\) 388-1825](tel:7143881825)