Building	Assembly	ACM roof	ACM Flashing	Over Condtion of Roof Covering	Problems
Town Hall	Gravel surfaced fiberglass built up roof Perite insulation (Tapered 3 inches at core) Urethane/Isocyanurate Insulation (1 inch) Steel Deck	Negative	Negative	Built up Roof - 27 yr old Slate Roof-Very Good	Poor tranistions between old and new sections Failed pitch pockets-upper section Failed flashings at elevator area & other areas Masonry deterioration SE corner of Slated Main Roof Failed joints in copper gutters of Slate Roof
Police Station	Gravel surfaced modified roof (No cores taken due to warranty status) Only 4 to 5 year old roof	No Sample	No Sample	Modified Roof - Good (but with flawed flashing provisions throughout)	Low flashings throughout subject to leaks Failed Flashing over ammo room & other areas Gravel clogged in drains Absence of adequate snow retention at front entrance
Senior Center Priscilla Place	Modified Cap sheet over Fiberglass plies 2-1/2 inch perlite Wood deck	Negative	Negative	Modified Roof - Fair Tile Roofs- Good Asphalt Shingle Roofs- Good	Failed gutters Broken Spanish tiles especially at NE valley/hip Soffit damage especially on north elevation Main Roof - Probable leaking drain body Poor drainage & possible structual problem in SE & NW cc
Berkshire Avenue Garage	2 inches of bituminous layers Wood Deck * Samples to lab on August 3, 2011	Positive	Positive	Low slope roof-Poor Shingle Roofs - Fair	Severe water entry at SW to NE valley Moderate damage to wood decking outside valley area Moderate damage to wood perimeter elements No internal drains or gutters

ChemScope *INDUSTRIAL HYGIENE ? ENVIRONMENTAL CHEMISTRY*
15 Moulthrop Street, North Haven, CT 06473-3686 ? Phone (203) 865-5605 ? Fax (203) 498-1610

Certificate Of Analysis

M.A. Caputo Associates, LLC
1008 Quinnipiac Avenue

New Haven CT 06513

8/8/2011
CS# 177-347

Bulk sample(s) from Senior Center, Humtington Turnpike, Trumbull CT received from customer on 8/3/2011

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings (Analyzed 8/8/11)**
177-347-1 Black hard tar and paper roofing material layers with a light brown fibrous undercoating and white granuled face () / Roof (Layers tested together as per customer request)	*No Asbestos Detected* *17% Non- Fibrous Particles* *69% Volatile on Ignition* *14% Fiberglass*

PARAMETERS
ASBESTOS PLM ANALYSIS
(Revised 3/11/11)

1. *Materials which contain >1% asbestos (greater than 1%) by PLM (polarizing light microscopy) analysis are considered to be asbestos containing materials under EPA, OSHA and the State of Connecticut Regulations. {Note: A more sensitive method is available called TEM (transmission electron microscopy). TEM may detect asbestos fibers that PLM cannot see, but the above agencies' enforcement is based on PLM analysis. Rules may differ for states other than Connecticut. It is best to check with the individual state. For example, New York State requires TEM confirmation of negative PLM results on floor tile}.*

2. *If no asbestos is detected in a sample, or if the asbestos content is less than 1% by PLM, additional samples of the same material should be submitted for confirmation. Please check with the laboratory for guidance on the number of samples needed. Sample collection in Connecticut must be by a DPH Licensed Asbestos Inspector. Many other states also require licensing.*

3. *Floor Tile Mastic: Mastic under floor tile should be separately sampled by scraping some of the mastic from the floor to avoid contamination from the floor tile.*

4. *Although Chem Scope, Inc. takes great effort to insure accuracy in the estimation of asbestos in the materials analyzed, no quantitation method is without some uncertainty. Based on independent calibration studies and comparison of Chem Scope's quantitative results with NVLAP and AIHA round robin programs we estimate our uncertainty in quantitation to be relatively small. The average relative uncertainty of the estimate is calculated to be 35% for samples that contain less than 10% asbestos. This means a estimate of 10% asbestos in a sample has a probable range of 6.5% to 13.5% while an estimate of 1% has a range of 0.65% to 1.35%.*

5. *The presence of non-asbestos components, which are recognized by the PLM analyst, is reported with the estimated amounts. This is not an exhaustive analysis for the non-asbestos materials since the primary purpose is to determine if asbestos is present and, if so, how much is present of each type of asbestos.*

6. *Results reported apply only to the sample(s) analyzed.*

7. *Special treatment of samples: Chem Scope, Inc. routinely uses gravimetric sample reduction techniques such as low temperature ashing or acid dissolution on samples like floor tile, roofing materials, glue dots, or high cellulose content samples prior to PLM analysis. These methods are used to aid in the PLM analysis and to provide better quantitative data. Layered samples, if possible, are analyzed separately as individual layers. However, in accordance with the method, if any layer contains >1% asbestos (greater than 1%) it is to be considered an asbestos containing material. All results are reported to the original sample basis.*

8. *Sample results are not corrected for blanks. Analytical blanks are run daily and if contamination is suspected the samples are rerun.*

9. *Chem Scope, Inc. performs "400 point" point counting when the asbestos content is visually estimated to be less than 10%. There is no additional charge for this analysis.*

The Scope of Accreditation referenced in this report applies to bulk asbestos fiber analysis by PLM (Polarized Light Microscopy).
Accreditation does not imply endorsement by NVLAP, NIST or any Federal or State Agency.
This report pertains only to the samples tested and may not be reproduced in part.
Condition of the samples at the time of receipt was acceptable unless otherwise noted on the Certificate of Analysis.
See test parameters above and attached chain of custody form.
We would love to hear from you. Comments? Questions? Please call or email us at chem.scope@snet.net.

ChemScope, Inc. is accredited by AIHA LAP, LLC LAB #100134
NVLAP Lab Code 101061-0.
Connecticut Department of Public Health (DPH) Approved Environmental Lab PH 0581

Signature	*Signature (if applicable)*	*Authorized Signature or*	*Authorized Signature*
Analyst	*Inspector*	*Ronald D. Arena Director*	*Suzanne Cristante Quality Manager*