Overview
Work includes the asbestos and regulated material assessment and removal oversight.

The site will be assessed and overseen for subsurface sewage treatment systems (SSTS), also known as septic systems, well systems, cisterns and other similar underground disposal structures.

Work may include mold remediation on State-owned buildings.

All work must comply with applicable federal, state regulations, and State’s Regulated Material Management Program, “Building & Bridge Demolition/Relocation” web site (available at: http://www.dot.state.mn.us/environment/buildingbridge/index.html) when handling and disposing of asbestos containing materials and disposal and/or recycling other regulated materials.

Definition of Regulated Waste: A Regulated Waste is any waste that cannot be considered demolition debris as defined in Minnesota Rules Chapter 7035.0300 Subp.30, or any waste that cannot remain on site because it would be considered a pollutant or contaminant as defined in U.S. Code Title 42 Chapter 103 Subchapter 1 Section 9601 (33) and Minnesota Statute 115B.02, subd.13.

The term Regulated Waste covers products that, once they become wastes, are regulated, and include, but are not limited to, the following items:

- Chlorofluorocarbons (CFC’s) – from heat pumps, central air conditioners, etc.
- Polychlorinated Biphenyls (PCB’s) – from caulk, bituminous felt, light ballasts, electronic relays, etc.
- Mercury – from fluorescent lighting, electrical switches, thermostats, etc.
- Lead – from loose paint, gaskets, circuit boards, LED bulbs, piping, batteries, etc.
- Treated Wood – from guardrail system, buildings, decks, etc., including subsurface pilings (creosote, pentachlorophenol, CCA, etc.).
- Other household hazardous wastes on the premises - e.g. waste paints, pesticides, solvents, etc., abandoned by the previous owner.
- Abandonment of subsurface structures such as wells and sewage treatment systems (SSTS).
- Contents of flammable waste traps, sedimentation traps, holding tanks and cisterns.
- Other solid wastes, such as appliances (white goods), electronics, and garbage/trash.
- Mold remediation.
- Evidence of bats.

Buildings - Contractor will inspect for bats and signs of bats (droppings, urine staining, and ammonia smell) both inside and outside the structure(s). Common areas include; attic, basements, crawl spaces, walls without insulation, and other cracks/crevices/cavities. If found please record location of structure found, if dead or alive, and take photos.

Bridges - Contractor will inspect for bats and signs of bats (droppings, urine staining, and ammonia smell) throughout the structure(s). If found please record location of structure found, if dead or alive, and take photos.

Contractor, acting as the Authorized Agent of the Minnesota Department of Transportation, will make application for, sign, and secure any and all permits required under Minnesota State Building Code 1300.0120 PERMITS, Subpart 1, prior to the initiation of any regulated waste removal, asbestos abatement and/or peeling lead paint stabilization. Contractor will be responsible for all permit fees associated with the work performed.

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Asbestos and Regulated Waste Assessment
A. Contractor will schedule all assessments with State’s Project Coordinator.
B. State’s Project Manager must approve modifications, additions or deletions to State’s requirements in writing.
C. Contractor will perform all asbestos assessments using inspectors that hold current certifications for performing asbestos assessments as required by the Minnesota Department of Health.
D. All asbestos and regulated waste assessments and reports must be reviewed and certified for their accuracy by a Certified Hazardous Materials Manager employed by the Contractor.
E. Contractor will generate an assessment report for each bridge or parcel inspected. All assessment reports will be prepared in accordance with the sample report at: http://www.dot.state.mn.us/environment/buildingbridge/assessment.html
F. Contractor will generate a spreadsheet summarizing regulated materials for all multiple bridge or multiple parcel projects.
G. Unless otherwise directed by State’s Project Manager, all structures must be inspected by the Contractor and included in the assessment report.
I. Contractor will conduct a walk-through of the parcel(s) and all structures and immediately provide written notification (preferably email) to State’s Project Manager and Coordinator of any of the following findings: aboveground storage tanks (including residential heating oil tanks less than 300-gallon capacity), underground storage tanks, flammable waste traps, liquid storage pits, cisterns, or evidence of contaminated soil or buried waste materials.
J. Contractor will photograph all samples collected for analysis and sampling locations. The photos will be included in the assessment report.
K. In addition to applicable federal and state regulations, the following guidelines will be used when sampling each homogeneous material:
   • For Surfacing Material
     o Less than 1000 Sq. Ft. – Minimum 3 samples
     o 1000 Sq. Ft. to 5000 Sq. Ft. – Minimum 5 samples
     o Over 5000 Sq. Ft. – Minimum 7 samples
   • For Thermal System Insulation (TSI)
     o Minimum 3 samples
     o Patches less than 6 Sq. Ft. or 6 Lineal Feet – Minimum 1 sample
   • Miscellaneous Material – Minimum 1 sample
   • Vermiculite – Minimum 9 samples
L. Contractor will not conduct composite sampling of joint compounds and wallboard systems. These materials must be sampled separately and maintained as separate homogeneous materials.
M. If asbestos laboratory analysis indicates a defect up to 1%, the laboratory must do a point count for each sample. In addition, 1 out of every 20 samples has a side-by-side duplicate sample collected and analyzed separately, either by the same or a different lab.
N. Contractor will complete and submit Chain-of-Custody forms with all samples.
O. All asbestos samples must be analyzed by a laboratory with one or all of the following active accreditations or successful participation in one of the following programs:
   • Accredited by the National Institute of Standard & Technology Voluntary Accreditation Program (NIST)
   • Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP)
   • Successfully Participate in the asbestos bulk analysis program of the American Industrial Hygiene Association (AIHA)

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P. All regulated waste samples must be analyzed by a laboratory that is accredited by:
   • The Minnesota Department of Health if the laboratory is located within the State of Minnesota.
   • The Wisconsin Department of Natural Resources if the laboratory is located within the State of Wisconsin.

Q. Laboratory accreditation or successful participation described above must be submitted with each assessment report.

R. State will provide bridge plans, building sketches and other relevant building information on all of the bridges and/or parcels covered by this contract.

S. For buildings or bridges constructed prior to 1980, the Contractor will test all homogeneous caulk on the structure for Polychlorinated biphenyls (PCBs).

T. For bridges, Contractor will determine if paint systems are lead or non-lead and if damaged.

U. Unless otherwise directed by State’s Project Manager, all above ground storage tanks and underground storage tanks must be inspected for presence and contents by Contractor and included in the assessment report.

V. Bat droppings evidence for buildings: Contractor will inspect for bats and signs of bats (droppings, urine staining, and ammonia smell) both inside and outside the structure(s). Common areas include: attic, basements, crawl spaces, walls without insulation, and other cracks/crevices/cavities. If found please record location of structure found, if dead or alive, and take photos.

W. Bat droppings evidence for bridges: Contractor will inspect for bats and signs of bats (droppings, urine staining, and ammonia smell) throughout the structure(s). If found please record location of structure found, if dead or alive, and take photos.

Regulated Waste Removal, Asbestos Abatement and Mold Remediation Oversight

A. Contractor will take direction regarding oversight of the abatement contractor from State’s Project Manager.

B. Contractor will schedule all oversight activities with State’s Project Coordinator and with the regulated waste contractor and the asbestos abatement contractor.

C. State’s Project Manager must approve modifications, additions, or deletions to all contract requirements in writing.

D. Only Contractor personnel that hold a current Minnesota Department of Health (MDH) Certified Asbestos Site Supervisor certification will be allowed to perform asbestos abatement oversight.

E. Contractor’s oversight supervisor will ensure that the asbestos abatement contractor complies with the duties as described in applicable federal and state regulations and State’s Regulated Material Management Program, “Building & Bridge Demolition/Relocation“. Any deviations observed by the Contractor will be immediately reported to State’s Project Manager.

F. Contractor will ensure that the abatement contractor will notify the MPCA if 160 sq. ft., 260 linear ft., or 35 sq. ft. is exceeded for all ACM found on the project. Contractor will obtain clear, legible copies of the 10-day notifications from the asbestos abatement contractor at the same time the notification is sent to the regulators.

G. The guidelines below will be followed if vermiculite was observed during the assessment or if it is discovered during the abatement process:
   • If any of the tests of the vermiculite containing material in any one structure detect any asbestos over 0%, the vermiculite containing material must be treated as regulated asbestos containing material.
   • If all of the tests of the vermiculite containing material in any one structure indicate 0% asbestos or none detected, then all of the vermiculite containing material within the structure can be left in-place and managed with the rest of the building at demolition.

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H. Contractor will ensure that the abatement contractor utilizes an encapsulation method to manage peeling lead paint (see http://www.dot.state.mn.us/environment/buildingbridge/pdf/peeling-paint-mgmt.pdf).

I. Contractor will provide in-house air monitoring services. This service cannot be contracted out. For asbestos abatement projects where asbestos air sampling is required, Contract must be able to determine results on site, upon completion of running the sample.

J. Contractor will ensure all waste is shipped directly from the project site to a State approved landfill or other State approved end site facility. Off-site, temporary storage and/or co-mingling with waste materials not generated by the project will not be permitted, unless approved in writing by State’s Project Manager.

K. Contractor will ensure that all shipping documents and disposal records are complete, accurate, legible, and that the documents are received from the abatement contractor within 10 days of the waste being transported from the project site.

L. Contractor’s oversight supervisor must maintain a daily field log, which will be provided to State’s Project Manager for inclusion in the project removal asbestos abatement reports and regulated waste removal reports. At minimum the field log will contain but not be limited to the following information:

- Provide reference if the abatement notification(s) to the MPCA/MDH was timely, complete, accurate and legible
- Dates the abatement contractor worked
- Amounts and types of asbestos removed
- Hours spent on removal activities
- Other information that is pertinent to the project
- Description of other related work as required by State’s Project Manager

M. Contractor’s oversight supervisor must ensure that the asbestos abatement and regulated waste removal contractors provide all of the necessary paperwork to complete the asbestos abatement, regulated waste, and mold remediation reports. Contractor will, within 20 days of work completion, provide State Project Manager with reports.

The report templates can be found the bottom of the page at: http://www.dot.state.mn.us/environment/buildingbridge/asbestos.html.

- The asbestos abatement report and regulated waste removal report must be consistent with the applicable portions of the Asbestos and Regulated Waste Assessment Report, containing an inventory of the wastes removed and copies of disposal manifests, recycling certificates and disposal tipping receipts for all the regulated wastes recycled or disposed of.
- The asbestos abatement report must also include: daily sign in and sign out logs, asbestos project plan, on-site air monitoring results, clear legible copies of MDH hard cards, and negative air pressure measurements.

N. Contractor will prepare separate asbestos abatement reports and regulated material removal reports for each parcel or bridge.

O. Contractor will complete and sign paperwork on behalf of the State. This paperwork includes: current notification of regulated waste activity form (EPA HW ID#), shipping papers, waste profile forms, and city permits. Contractor will determine if city permitting is required.

P. Contractor will ensure that the regulated waste removal contractor will remove all above ground storage tanks below or equal to 500 gallon storage capacity. The regulated waste removal contractor will sub-contract the entire removal to a State approved storage tank removal contractor. Effort will be taken to prevent spillage on site.

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Q. Contractor will conduct a final walk-through of structures/parcel to ensure all asbestos and regulated waste has been abated. Ensure a date of the walk-through is documented in the daily log.

R. Contractor will ensure that the well sealing and subsurface sewage treatment system (SSTS) documentation is obtained and put into final report (including the disposition of the tanks). Contractor will ensure documentation of disposition of any other subsurface structures (such as drain fields or cisterns) contents are included in the final report.

S. Contractor will ensure backfill and surface restoration will comply with the following:
   - Backfill site with clean fill and top with 3” of common topsoil material
   - Till topsoil to remove clods of soil greater than 3 inches in diameter and any ruts, rills, or gullies deeper than 3 inches deep or wide, and create a smooth, evenly textured soil surface prior to planting seed
   - Plant State seed mix 22-111 uniformly at a rate of 30.5 pounds pure live seed per acre. Use a mechanical seeder or hydroseeder. If hydroseeding, add a 50 pound bale of Hydraulic Mulch
   - Install Category 3 Natural Net erosion control blanket after seeding from State Approved Product List

T. When applicable, mold remediation will include the following:
   - Contractor will ensure that spore counts are taken before and after mold remediation for final report.
   - Contractor will be on site to visually observe the mold abatement and ensure an adequate job performed.
   - Prior to teardown of the containment system, Contractor will collect total spore air samples within the containment to ensure the airborne spore levels are not elevated prior to re-occupancy.
   - If airborne spore levels within the containment are excessive, then further cleaning may be required followed by a second set of samples.
   - Surface swab samples will also be collected off select building materials, impacted by the mold contamination that are to remain in place (i.e., concrete walls, wood studs/Joist, etc.).
     - Minimal levels of mold spores present, less than 25 colonies – surface considered clean – no additional remediation is required.
     - Moderate to high levels of mold spores present, 26 to 50 colonies – re-clean affected area.
     - High levels of mold spores present, greater than 50 colonies – re-clean affected area if non-porous; remove affected area if porous.

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