

SECTION 01561**PEST CONTROL****PART 1 GENERAL****1.01 SUMMARY**

- A. This Section includes providing pest (rodent) control services within and adjoining all exterior work areas, including: within the Contractor's staging, laydown and trailer areas indicated on the Contract Drawings; within the area extending 100 feet in each direction beyond the outside perimeter of the Contractor's staging, laydown and trailer areas; at all areas of excavation; and within the area extending 100 feet in each direction beyond the areas of excavation. Pest control measures shall not be installed in wetlands areas or National Heritage and Endangered Species Program (NHESP) Priority Habitat areas.
 - 1. Develop and implement an Integrated Pest Management (IPM) approach. This IPM effort shall consist of an initial program that achieves control of existing pests prior to any work on site followed by a maintenance program.
 - 2. Provide control in the form of tamper-resistant pest stations at all manholes, structures and catch basins.
- B. Furnish all labor, equipment, materials and supervision, and maintain and submit records as specified.

1.02 RELATED SECTIONS

- A. Section 01300 – Submittals

1.03 CODES AND STANDARDS

- A. National Pest Management Association (NPMA):
 - 1. NPMA Guidance
- B. Massachusetts Pesticide Board:
 - 1. 333 CMR 10.00 – Certification and Licensing of Pesticide Applicators

1.04 SUBMITTALS

- A. Submit the following in accordance with Section 01300 – Submittals:
 - 1. Within twenty (20) working days after Notice to Proceed (NTP), submit a pest

control procedure specifying:

- a. Pesticide product data with application rates. Provide product labels and Safety Data Sheets and pesticide manufacturer's U.S. Environmental Protection Agency (EPA)-approved pesticide label with application directions for all pesticides proposed for use.
 - b. Pesticide applicator certifications and licenses.
 - c. Written description of proposed pest control procedures, indicating materials, quantities, methods, and time schedule, after performing the pre-construction survey specified in Paragraph 3.02 and before initiating baiting.
 - d. Map showing, and labeling with a unique ID, bait stations in manholes, structures and catch basins where pest baits are being maintained, after the initial bait installation and weekly thereafter.
 - e. Method of monitoring program effectiveness based on consumption of bait and visual inspections of site conditions.
 - f. Weekly - data sheets with locations of sites treated by ID, including date, placement, amounts and type of pesticide used, number and types of traps set, survey and inspection results, changes in pest activity, sanitation conditions, complaint calls investigated (including location, contact person, inspection results and actions taken), and problems.
 - g. Monthly - written summary that includes determinable results of the IPM program and recommendations.
2. Within ten (10) working days after the end of every month, submit a report with the following for the prior month:
- a. Work performed.
 - b. Materials used.
 - c. Placement procedures.
 - d. Quantity of pesticides used.
 - e. All documentation required in this Section.
 - f. Any additional findings, observations and recommendations.

1.05 QUALITY ASSURANCE

- A. Methods shall be in accordance with National Pest Management Association (NPMA) recommended procedures. Pest control shall be performed by a Certified Pesticide Applicator (CPA), licensed by the Commonwealth of Massachusetts Department of Agricultural Resources Pesticide Program as a Certified Pesticide Applicator in the categories of General Pest Control and Vertebrate Pet Control.
- B. CPA personnel shall be identifiable through uniform work clothes and photo identification, as well as pesticide certification/license.
- C. Baiting shall be performed according to the rodenticide labeling as approved by the EPA and the Massachusetts Department of Agricultural Resources.

1.06 QUALIFICATIONS (NOT USED)**1.07 DELIVERY, STORAGE, AND HANDLING (NOT USED)****1.08 PROJECT/SITE CONDITIONS (NOT USED)****1.09 DEFINITIONS (NOT USED)****1.10 TOLERANCE (NOT USED)****PART 2 PRODUCTS****2.01 MATERIALS**

- A. The CPA shall supply all pesticides and supplies for this program. Only pesticides that do not pose a secondary poisoning risk to birds of prey and non-rodent mammals shall be used.
- B. The CPA shall use the following EPA-approved and Massachusetts-registered toxicants or equal:
 - 1. Anticoagulants (Single Dose):
 - a. Bromadiolane
 - b. Brodifacoum 0.005 percent
 - 2. Tracking powders:
 - a. Zinc Phosphate
 - b. Calcium Salt of 2-Isovaleryl, 3-Indandione 2.18 percent

- C. Materials shall be used in strict accordance with EPA-approved label directions, applicable state and local regulations, and NPMA-recommended procedures.
- D. Post the EPA-approved treatment for exposure to the pesticides being used at the entrance to each baited structure and at each gate leading to the area where pesticide is used.

2.02 EQUIPMENT

- A. Bait stations shall be tamper-proof.

PART 3 EXECUTION

3.01 GENERAL

- A. Baiting shall include a start-up (pre-construction) baiting program followed by a maintenance-baiting program that lasts until completion of work on site for the areas identified in this Section.
 - 1. Thirty (30) to Forty-five (45) days prior to any work on site:
 - a. Inspect areas. Investigate signs of pest activity and perform corrective treatment if necessary.
 - b. Perform baiting treatment. Method of applications shall be consistent with pesticide label directions for use.
 - 2. One (1) week after 1st service (2nd service follow-up):
 - a. Reinspect areas. Investigate signs of pest activity and perform corrective treatment if necessary.
 - b. Perform baiting retreatment.
 - 3. Every two (2) weeks after 2nd service (periodic service/maintenance throughout Work):
 - a. Reinspect areas. Investigate signs of pest activity and perform corrective treatment if necessary.
 - b. Perform baiting retreatment.
 - 4. Immediately after conclusion of work on site:
 - a. Retrieve pesticides and pest control equipment in accordance with NPMA recommended procedures.

3.02 START-UP

- A. The CPA shall begin pest control baiting within five (5) working days of the completion of the review of the pest control procedure specified in this Section.
- B. The start-up of baiting shall include a pre-construction survey of surface pest activity and sanitation deficiencies. The CPA shall locate pest stations where pests:
 - 1. Are active.
 - 2. May frequent, including, but not limited to, dumpsters and trash collection areas.
 - 3. May potentially infest, such as low-lying shrubs, soft soils, areas with debris and rubble.
- C. All bait applications shall be made based upon activity levels and distribution of pest control populations.
- D. No on-site Project activity shall take place until start-up baiting program is complete and a pest-free construction site has been established.

3.03 BAIT STATIONS

- A. Control shall include baiting of all active rat burrows and shall include the use of tamper-resistant bait stations.
- B. Bait placements and bait stations shall be:
 - 1. Placed to minimize exposure.
 - 2. Identified with the name of the CPA.
 - 3. Dated and individually numbered.
 - 4. Secured to prevent unauthorized removal.
- C. Bait stations shall be baited with an uninterrupted supply of pesticide bait or non-toxic monitoring bait unless instructed otherwise by the product label.
- D. Traps shall be used where appropriate, using snap traps, glue boards, and/or live catch traps.

3.04 MAINTENANCE

- A. In accordance with the schedule of Paragraph 3.01 the CPA shall:
 - 1. Inspect every two (2) weeks bait stations and traps, including subsurface structures,

established during start-up as well as additional stations and traps provided during the maintenance phase.

2. Monitor pest activity. Make adjustments to the placement of bait stations, and provide and locate additional bait stations, responding to changes in pest populations and any pest-related complaints.
 3. Monitor sanitation conditions. Identify potential harborage and food sources available to pests on the construction site. Identify areas with sanitation conditions or structural deficiencies that violate state or local sanitary codes.
- B. Replace or repair any damaged stations.
 - C. Remove and dispose of carcasses in accordance with Commonwealth of Massachusetts Public Health Regulations and shall refill traps and bait stations.
 - D. In locations where no pests are present, the place non-toxic monitoring baits to monitor for new pest activity.
 - E. Where and when pests are present, use an uninterrupted supply of bait unless instructed otherwise by the product label.
 - F. Continue maintenance until completion of all Work.

3.05 RECORDS

- A. Records shall be kept as required by 333 CMR 10.14.
- B. The CPA shall maintain copies of records for each of the following items using forms reviewed by the Authority.
 1. Bait station and trap locations, updated monthly, with a unique identification number assigned to every trap location including every burrow, bait station, manhole and catch basin.
 2. Pest activities and sanitation conditions at the bait stations and traps, including the amount of bait placed and consumed at each baiting location.
 3. Reported pest movements and sightings, and all complaints received and investigated. This includes location, contact person, inspection results and actions taken.
 4. Recommendations for pest control measures for the upcoming month.

3.06 COMPLAINT CALLS

- A. Immediately notify the Authority of pest-related complaints from the adjacent areas. Immediately respond to pest-related complaints received from the Authority, and, with Authority approval, to pest-related complaints received from the adjacent areas. Inspect the particular premises and adjacent areas for sanitation and structural deficiencies and also for signs of historic and recent pest activity. Use pesticides or traps as necessary and appropriate to resolve each complaint.

**** END OF SECTION ****