SECTION 313100

SOIL TREATMENT

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***NOTE TO SPECIFIER***

*Use this Specification Section for Mail Processing Facilities.*

***This is a Type 1 Specification with completely editable text; therefore, any portion of the text can be modified by the A/E preparing the Solicitation Package to suit the project.***

*For Design/Build projects, do not delete the Notes to Specifier in this Section so that they may be available to Design/Build entity when preparing the Construction Documents.*

*For the Design/Build entity, this specification is intended as a guide for the Architect/Engineer preparing the Construction Documents.*

*The MPF specifications may also be used for Design/Bid/Build projects. In either case, it is the responsibility of the design professional to edit the Specifications Sections as appropriate for the project.*

*Text shown in brackets must be modified as needed for project specific requirements.* *See the “Using the USPS Guide Specifications” document in Folder C for more information.*

*The last date that USPS revised this standard specification section occurs in two places, at the end of this section and in the Table of Contents. If the date in this section matches the date in the Table of Contents, then you are using the latest version. Do not delete or revise the “last revised” date at the end of the section during the development of the Project Manual.*

*The footer in this section should be edited to replace the text, “USPS MPF SPECIFICATION” with the project name, and the blank date in the center should be replaced with the submission date, for interim design reviews, or the issue date of the completed Project Manual.*

**Use this section where Project is located in an area subject to termite damage and Termite Control is a part of the Work.**

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1. GENERAL
	1. SUMMARY
		1. Section Includes:
			1. Soil treatment for termite control.
			2. Application below grade and at interior and exterior foundation perimeter.
		2. Related Documents: The Contract Documents, as defined in Section 011000 - Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other documents.
	2. REFERENCES
		1. United States Environmental Protection Agency (EPA):
			1. EPA - Federal Insecticide, Fungicide, and Rodenticide Act.
	3. SUBMITTALS
		1. Section 013300 - Submittal Procedures: Procedures for submittals.
			* 1. Product Data: Indicate toxicants to be used, composition by percentage, dilution schedule, and intended application rate.
		2. Section 017704 - Closeout Procedures and Training: Procedures for closeout submittals.
			1. Project Record Documents: Accurately record moisture content of soil before treatment, date and rate of application, areas of application, diary of meter readings and corresponding soil coverage.
			2. Warranty: Submit manufacturer warranty with forms completed in United States Postal Service name and registered with manufacturer.
	4. QUALITY ASSURANCE
		1. Applicator Qualifications: Company specializing in performing the Work of this Section with minimum 5 years documented experience and licensed in accordance with regulations of authorities having jurisdiction for application of chemical toxicant.
		2. Regulatory Requirements: Conform to applicable code for application requirements, application licensing, authority to use toxicant chemicals, and in accordance with EPA regulations.
	5. DELIVERY, STORAGE, AND HANDLING
		1. Section 016000 - Product Requirements: Transport, handle, store, and protect Products.
		2. Deliver products in manufacturer's original unopened containers with labels intact, identifying Product and manufacturer, application instructions, and EPA federal registration number.
		3. Do not store Products on site. Deliver Products to site at time of application.
	6. PROJECT CONDITIONS OR SITE CONDITIONS
		1. Environmental Requirements: Do not apply soil treatment to frozen or wet soils or during rain or snow.
	7. WARRANTY
		1. Section 017704 - Closeout Procedures and Training: Procedures for closeout submittals.
		2. Special Warranty:
			1. Submit written warranty signed by soil treatment applicator and Contractor certifying that applied chemical toxicant treatment will prevent infestation of subterranean termites.
				1. State that application was made at concentration, rates, and methods as specified.
				2. State that if subterranean termite activity is discovered during warranty period, Contractor will retreat soil and repair damage caused by termite infestation at no additional cost to United States Postal Service.
			2. Cover against invasion or propagation of subterranean termites, damage to building or building contents caused by termites; repairs to building or building contents so caused.
			3. Provide for inspection of Work annually, report in writing to designated USPS Facility Head.
			4. Warranty Period: 5 years.
2. PRODUCTS
	1. MATERIALS
		1. EPA and local authority having jurisdiction approved chemical toxicant; water based emulsion, uniform composition, with synthetic dye to permit visual identification of treated soil, bearing Federal registration number of the EPA.
		2. Specially formulated to prevent infestation by termites.
		3. Section 016000 - Product Requirements: Product options and substitutions. Substitutions: Permitted.
	2. MIX DILUTION
		1. Dilute and mix toxicant chemical to manufacturer's published instructions.
3. EXECUTION
	1. EXAMINATION
		1. Section 017300 - Execution: Verification of existing conditions before starting work.
		2. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.
			1. Verify the soil surfaces are unfrozen, sufficiently dry to absorb toxicant, ready to receive treatment.
			2. Verify final grading is complete.
		3. Report in writing to Contracting Officer prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected.
		4. By beginning Work, Contractor accepts conditions and assumes responsibility for correcting unsuitable conditions encountered at no additional cost to the United States Postal Service.
	2. PREPARATION
		1. Remove foreign matter, loosen, rake, and level soil to be treated, except previously compacted areas under slabs and foundations.
	3. APPLICATION
		1. Apply toxicant within 12 hours before installation of vapor retardant under slab-on-grade.
		2. Apply toxicant to soil in strict accordance with federal and local jurisdiction requirements and manufacturer’s printed application rates.
		3. Apply toxicant as a coarse spray; provide uniform metered distribution.
		4. Post signs in areas of application to warn workers that toxicant has been applied to soil. Remove signs after areas are covered by other construction.
		5. Reapply toxicant to areas disturbed by subsequent excavation, landscape grading, or other construction activities occurring after initial toxicant application.
	4. CONSTRUCTION
		1. Interface with Other Work:
			1. Coordinate application of toxicant at foundation perimeter with finish grading and landscaping work; avoid disturbance of treated soil.
	5. FIELD QUALITY CONTROL
		1. Section 014000 - Quality Requirements: Field testing and inspection.
		2. Inspect and test soil areas where toxicant was applied to determine the presence of any remaining termites before covering with subsequent construction.
		3. Reapply toxicant to areas where inspection or testing identifies the presence of termites. Use same toxicant as for original treatment.

END OF SECTION

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