



The City of Norman, Oklahoma Disaster Debris Management Plan

September 2022

City of Norman, Oklahoma Disaster Debris Management Plan

Table of Contents

Table of Contents

List of Tables

List of Figures

Section 1 INTRODUCTION	1-1
1.1 Overview.....	1-1
1.1.1 Purpose	1-1
1.1.2 Plan Development.....	1-1
1.2 Authority	1-2
1.3 References.....	1-3
1.4 Incidents and Assumptions	1-4
1.4.1 Incident Description.....	1-5
1.5 Debris Volume Estimate.....	1-6
1.5.1 Debris Estimate – Scenario 1.....	1-7
1.5.2 Debris Estimate – Scenario 2.....	1-10
1.5.3 Local Resource Needs Assessment	1-11
Section 2 ROLES AND RESPONSIBILITIES	2-1
2.1 Administration and Logistics.....	2-1
2.2 Debris Management Organization.....	2-1
2.3 Key Positions in Debris Management	2-3
2.3.1 Debris Manager	2-3
2.3.2 Street-Clearing Task Force Leader.....	2-3
2.3.3 Debris Collection and Disposal Task Force Leader	2-4
2.3.4 Street-Clearing Task Forces	2-4
2.3.5 Debris Collection and Disposal Task Forces.....	2-5
2.4 Primary Departments	2-5
2.4.1 Public Works Department.....	2-5
2.4.2 Emergency Management	2-5
2.5 Interdepartmental Coordination.....	2-6
2.5.1 Planning and Community Development.....	Error! Bookmark not defined.
2.5.2 City Attorney	2-6
2.5.3 City Manager’s Office	2-6
2.5.4 City Clerk’s Office	2-7
2.5.5 Finance.....	2-7

Table of Contents

2.5.6	Fire Department	2-7
2.5.7	Mayor and City Council	2-7
2.5.8	Parks and Recreation	2-8
2.5.9	Planning and Community Development.....	2-8
2.5.10	Police Department	2-8
2.5.11	Public Works	2-8
2.5.12	Utilities	2-9
2.6	County Offices.....	2-9
2.6.1	Cleveland County Emergency Management (CCEM)	2-9
2.6.2	Cleveland County Commissioner Offices	2-9
2.6.3	Cleveland County Health Department.....	2-10
2.7	State Agencies	2-10
2.7.1	Department of Agriculture, Food and Forestry	2-10
2.7.2	Oklahoma Department of Environmental Quality (DEQ).....	2-10
2.7.3	Oklahoma Department of Health.....	2-10
2.7.4	Oklahoma Military Department.....	2-10
2.7.5	Oklahoma Department of Emergency Management (OEM).....	2-10
2.7.6	Oklahoma Department of Transportation (ODOT)	2-11
2.7.7	Oklahoma Historical Society (OHS)	2-11
2.7.8	Oklahoma Office of the Chief Medical Examiner.....	2-11
2.8	Federal Agencies	2-11
2.8.1	Federal Emergency Management Agency (FEMA)	2-11
2.8.2	Federal Highway Administration (FHWA)	2-11
2.8.3	Natural Resources Conservation Service (NRCS)	2-12
2.8.4	Office of Inspector General (OIG)	2-12
2.8.5	U.S. Army Corps of Engineers (USACE)	2-12
2.9	Private Enterprise.....	2-12
2.9.1	Debris Hauling Firm.....	2-12
2.9.2	Debris Monitoring Firm.....	2-12
2.10	Nonprofit Organizations	2-13
Section 3 DEBRIS COLLECTION AND REMOVAL PLAN.....		3-1
3.1	Normal Operations.....	3-1
3.1.1	Normal Operations Checklist	3-2
3.2	Pre-Incident Preparation	3-3
3.2.1	Pre-Incident Checklist	3-3
3.2.2	Public Information Pre-Incident	3-4
3.3	Post-Incident Response.....	3-5
3.3.1	Emergency Road Clearance Priorities	3-5
3.4	Post-Incident Response Checklist.....	3-5
3.4.1	Conduct Damage Assessment.....	3-6
3.4.2	Establish a Debris Management Operations Center	3-6
3.4.3	Activate Monitoring Firm and Debris Removal Contractors	3-6
3.4.4	Begin Emergency Roadway Debris Clearance.....	3-7
3.4.5	Begin Truck Certification	3-7

3.4.6	Prepare Debris Management Sites Based on Concentration of Debris.....	3-8
3.4.7	Conduct Meetings/Briefings with Key Personnel	3-11
3.4.8	Review Debris Volume and Collection Cost Assessment.....	3-11
3.4.9	Request Contact Information and Meeting with FEMA Public Assistance Program Delivery Manager	3-11
3.4.10	Issue Post Incident Public Information Messages	3-12
3.5	Post-Incident Recovery.....	3-12
3.5.1	Post-Incident Recovery Checklist: 2 Days – 2 Weeks	3-13
3.6	Post-Incident Recovery Checklist: 2 Weeks – 1 Month.....	3-17
3.6.1	Maintain and Evaluate ROW Clean-up	3-18
3.6.2	Begin ROW Stump Removal as Necessary.....	3-18
3.6.3	Open Additional Debris Management Sites as Necessary	3-18
3.6.4	Continue Daily Meetings with FEMA.....	3-18
3.6.5	Begin Debris Removal from Private Property and Gated Communities.....	3-18
3.6.6	Public Information Post-Incident Recovery	3-19
3.7	Post-Incident Recovery Checklist: 1 Month – 3 Months.....	3-19
3.7.1	Maintain and Evaluate ROW Clean-up – Vegetative and C&D	3-19
3.7.2	Begin ROW Removal of Hazardous Limbs and Trees.....	3-19
3.7.3	Initiate Haul-Out.....	3-20
3.7.4	Progress to Weekly Meetings with the FEMA	3-20
3.8	Recovery Checklist: 3 Months – Project Completion	3-20
3.8.1	Complete all Debris Recovery Activities	3-20

Section 4 ENVIRONMENTAL CONSIDERATIONS AND OTHER

REGULATORY REQUIREMENTS..... 4-1

4.1	Federal Regulations and Guidance	4-1
4.2	State of Oklahoma Regulatory and Technical Assistance	4-3
4.2.1	Oklahoma Solid Waste Management Act.....	4-3
4.2.2	Oklahoma Department of Environmental Quality (ODEQ).....	4-3
4.2.3	Oklahoma State Department of Health (OSDH)	4-3
4.2.4	Oklahoma Historical Society (OHS)	4-3
4.2.5	Oklahoma Department of Transportation (ODOT)	4-4
4.2.6	Oklahoma Department of Agriculture, Food and Forestry.....	4-4
4.3	Other Relevant Regulations	4-4
4.3.1	Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act).....	4-4
4.3.2	Code of Federal Regulations (CFR): Title 44 – Emergency Management and Assistance.....	4-4
4.3.3	Title 2 CFR Part 200.....	4-5
4.3.4	Sandy Recovery Improvement Act (SRIA) of 2013.....	4-5
4.3.5	The Disaster Recovery Reform Act of 2018 (DRRA).....	4-5

Section 5 FINANCE..... 5-7

5.1	Record Maintenance	5-7
5.1.1	Funding Sources for Disaster Debris Operations	5-7

Table of Contents

5.2 Documentation.....	5-13
Section 6 PLAN MAINTENANCE.....	6-1
6.1 Plan Review and Approval	6-1
6.2 Training for Personnel	6-1
6.3 Exercises	6-2
Section 7 ACRONYMS AND DEFINITIONS	7-1

List of Tables

Table 1-1: EF Scale.....	1-6
Table 1-2: Potential Disaster Incidents	1-7
Table 1-3: Past Tornado Incidents Causing \$1 Million or More in Damage in Cleveland County	1-8
Table 1-5: Estimated CY of Debris from an EF3 Tornado.....	1-10
Table 1-12: Debris Resource Requirements	1-12

List of Figures

Figure 1-1 Possible Tornado Scenario for the City of Norman	1-9
Figure 1-2: Totally Destroyed Household Formula.....	1-10
Figure 1-3: Formula for Estimating Tree Debris from an Ice Storm	1-11
Figure 2-1: Debris Management Operations Chart.....	2-2
Figure 3-1: Disaster Recovery Timeline.....	3-1

List of Appendices

Appendix A: Job Aid Checklists for Key Positions	
Appendix B: Debris Management Checklists	
Appendix C: Contracting Checklist and Guidance	
Appendix D: Contracts	
Appendix E: Contractors, Disposal, and Recycling Resources	
Appendix F: Debris Management Site Analysis Report	
Appendix G: Debris Management Site Memorandum of Understanding	
Appendix H: Health and Safety Strategy	
Appendix I: Sample Public Information Messages	
Appendix J: Priority Roads List	
Appendix K: Debris Zone Map	
Appendix L: Equipment List	
Appendix M: Field Documents	
Appendix N: Right-of-Entry	
Appendix O: Hazardous Stump Extraction and Removal Eligibility	
Appendix P: Oklahoma Department of Environmental Quality Guidance	