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Environmental Assessment
Determinations and Compliance Findings for HUD-assisted Projects
24 CFR Part 58

Project Information

Project Name: Metcalf Water Distribution System Construction Project

Responsible Entity: Village of Metcalf, Illinois

Grant Recipient (if different than Responsible Entity):

State/Local Identifier: 15-242023

Preparer: Steve Pamperin, Manager / Steve Pamperin Consulting LLC

Certifying Officer Name and Title: Cheryl Gill, Village Board President

Grant Recipient (if different than Responsible Entity):

Consultant (if applicable): Steve Pamperin, Manager / Steve Pamperin Consulting LLC

Direct Comments to: Steve Pamperin

Project Location: Water Distribution System Construction and related costs and improvements in the Village of Metcalf generally located village-wide.

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]**:** construction of water distribution system improvements village-wide including replacing approximately 18,650 lineal feet of water mains, LMI direct benefit service lines, hydrants, meters, seeding, erosion control, culvert replacement, surface infrastructure repair and all related costs in the Village of Metcalf (Edgar County, Illinois). The total estimated project costs of $482,500 will be funded as follows: $403,000 CDBG grant and $79,500 Village of Metcalf funds from US Rural Development and is located village-wide. The construction is planned to start in the Spring of 2017 and planned to be completed by Fall 2017.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:
Construction of water distribution system improvements are planned to significantly alleviate health and safety threats in the community, because of water main breaks and leaks, thus exposing residents to low water pressures and bacteria in the water system.

Existing Conditions and Trends [24 CFR 58.40(a)]:
Residents are currently subject to unsafe water distribution system which will continue without the water system improvements. The water system is experiencing water main breaks and leaks, thus exposing residents to low water pressures and bacteria in the water system.

Funding Information

Grant Number	HUD Program	Funding Amount
15-242023	CDBG	$403,000

Estimated Total HUD Funded Amount:
$403,000

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]**:**
$482,500 divided as follows:

Activity Description	CDBG	Village of Edgewood / US Rural Development
Water Construction, construction water distribution system improvements including replacing approximately 18,650 lineal feet of 4" & 6" water main, hydrants, LMI services, meters all related costs.	$403,000	$79,500
TOTAL	**$403,000**	**$79,500**

Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	No sale or acquisition of property will occur
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	*Illinois is not a covered state under these Acts.*
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes ☐ No ☒	*The project is exempt pursuant to Section 58.6(a)(3), because it is funded through a HUD formula grant made to a state.*
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes ☐ No ☒	Not affected, See IEPA sign off letter 01/23/2015 and Illinois non-attainment areas sheets
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☐ No ☒	Not applicable, see attached Illinois Coastal Zone Map
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☐ No ☒	See attached US EPA Envirofacts search results ~~and HUD Explosive and Flammable Facilities Worksheet.~~ N/A

Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☐ No ☒	01/15/2015 IDNR sign off-no endangered species and US Fish and Wildlife sign off
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	See attached US EPA Envirofacts search results
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	01/23/2015 IL Dept of Ag sign off letter and will follow IDOA Water and Sewer Line Construction Standards and Policies (where applicable)
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☐ No ☒	Not in Floodplain; 8-Step Floodplain review is not required (see map and review) - see attached FEMA Firmette showing FEMA unmapped (17045C0150C) and HUD Floodplain Management Checklist
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☐ No ☒	01/28/2015 IHPA sign off letter and completed Section 106 Tribal Consultation Checklist
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☐ No ☒	The project does not involve housing construction or rehabilitation.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	Not near Designated Sole Source Aquifer (see map)
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	01/15/2015 IDNR sign off (ECO Cat) and US Fish and Wildlife sign off
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	Not near Designated Wild and Scenic River (see map)

ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes ☐ No ☒	See attached US EPA EJ View search results

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.
(1) Minor beneficial impact
(2) No impact anticipated
(3) Minor Adverse Impact – May require mitigation
(4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The Village of Metcalf does not have an adopted a zoning ordinance and has not adopted a comprehensive plan (Source: Village President). Constructing water system improvements should lessen the health and safety issues faced by the Village (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) no new residential densities anticipated and is compatible with the existing land uses.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	Existing soils (loam) are suitable for the proposed sanitary sewer system project (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report). See also USDA Web Soil Survey Map (03/15/16). Constructing the water system improvements should have no affect on slope as land will be reverted back to previous conditions. (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and IDOA sign off 01/23/2015. Erosion control measures will be done during construction as required (Source: Professional Engineer's (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report). See also IDNR sign off letter 01/15/2015. The project

		will aid the health and safety of residents and is planned to benefit the residents and will not impact the storm water and a NPDES permit will be secured for the project (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and IEPA sign off letter 01/23/2015).
Hazards and Nuisances including Site Safety and Noise	2	During construction, routine traffic control will be done as required and all OSHA requirements will be required to be addressed by contractor and no site hazards were reported in field survey (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report). See also Envirofacts and EJ View. After determination of the project engineer, it was determined that the proposed HUD-assisted project does not include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion. The grant project area shows no outstanding signs of adverse environmental impacts. There are four sites identified on "Envirofacts" in the construction area. The US EPA website shows four recorded sites in the area. Cargill AG Horizon, Scottland Soil Service, Metcalf Fire Protection District, and Total Grain Management are shown on the project map within the target area. No hazardous facilities were seen in the areas and all properties appear to be free of hazardous materials. Construction activities will add normal construction noise during installation but the water system will not add to community noise levels (Source: Professional Engineer's (Milano and Grunloh Engineers) and see HUD Noise Abatement and Control Worksheet.
Energy Consumption	2	During construction, activities will require energy consumption during installation (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report).

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	1	The project will aid the health and safety of residents and may be beneficial to business and construction jobs will be needed during construction (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and (Source: US Census).
Demographic Character Changes, Displacement	1	The project will aid the health and safety of residents and may be beneficial to the future demographics and population with an improved quality of life (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and (Source: US Census). There will be no displacement of people, households or businesses with the proposed project (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report).

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	1	The project will aid the health and safety of residents and may be beneficial to schools and school aged children (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and the Shiloh School District offered no objections (03/04/2016). No cultural facilities nearby (Source: 01/28/2015 IHPA sign off)
Commercial Facilities	1	The project will aid the health and safety of residents and may be beneficial to commercial facilities (Source: Project Location Map and Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report).
Health Care and Social Services	1	The project will aid the health and safety of residents and there may be less of a demand for health care services with the improvements (Source: Professional Engineer's (Milano and Grunloh Engineer) - Project / Environmental Report); Edgar County Health Department letter 02/23/2016). The project will aid the health and safety of residents and there may be less of a demand for social services with the improvements in the Village (Source: Professional Engineer's (Milano and Grunloh Eng) - Project / Environmental Report) and Edgar County Health Department letter 02/23/2016).
Solid Waste Disposal / Recycling	2	The Village has no landfills in the area and solid waste concerns will be minimal during construction. (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and IEPA sign off letter 01/23/2015).
Waste Water / Sanitary Sewers	2	The project will aid the health and safety of residents and is planned to comply with IEPA waste water separation requirements (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and (Source: IEPA sign off letter 01/23/2015).
Water Supply	1	The water distribution system will benefit from these improvements (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and (Source: IEPA sign off letter 01/23/2015) and Edgar County Health Department letter 02/23/2016).
Public Safety - Police, Fire and Emergency Medical	1	Police operations are not expected to be affected by the proposed work and project (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and the Edgar County Sheriff's Office (03/04/2016) offered no objection to the project. Fire operations will benefit with water system improvements (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and the Metcalf Fire Department offered no objection to the project (03/07/2016). Emergency Medical operations will have no expected impact with the improvements (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and Edgar County Health Department letter 02/23/16.

Parks, Open Space and Recreation	2	No designated open space in the project area but open space may benefit with these improvements. (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and Project Location Map. There is one village park and recreation in the project area (Washington St and Central Ave) which may benefit with these improvements. (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report) and Project Location Map.
Transportation and Accessibility	2	Transportation impact will be minimal during construction and minimal road closures may be required during construction work. (Source: Professional Engineer's (Milano and Grunloh Engineers) - Project / Environmental Report).

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	01/15/2015 IDNR sign off / 01/23/2015 IDoA letter. 01/15/2015 IDNR sign off (ECO Cat) and not near a sole source aquifer (Source: Aquifer Location Map) and Edgar County Health Department letter 02/23/2016).
Vegetation, Wildlife	2	01/15/2015 IDNR sign off for endangered species and US Fish and Wildlife sign off letter.
Other Factors	2	01/15/2015 IDNR sign off for endangered species and US Fish and Wildlife sign off letter.

Additional Studies Performed:
Engineer's Environmental Report

Field Inspection (Date and completed by): Project Engineer Milano and Grunloh Engineers (Trevor Lawrence) (02/18/2016).

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:
Milano and Grunloh Engineers, Lee Beckman, P.E.; 1.) IL Dept of Natural Resources, 2.) IL Environmental Protection Agency, 3.) IL Dept of Agriculture, 4.) IL Historic Preservation Agency; 5.) Tribal Assessment; 6.) US Fish and Wildlife; 7.) Edgar County Health Department and Sheriff's Office; 8.) Village of Metcalf; 9.) Metcalf Fire Protection District; 10.) Shiloh School District.

List of Permits Obtained:
Permit will be secured following design engineering activities

Public Outreach [24 CFR 50.23 & 58.43]:
Tribal Consultation was completed requesting public comments.
Notice of Finding of No Significant Impact and Notice of Intent to Request Release of Funds public comment period will begin May 5, 2016.

Cumulative Impact Analysis [24 CFR 58.32]:
Construction of water distribution system improvements are planned to significantly alleviate health and safety threats in the community. Residents are currently subject to unsafe water distribution system which will continue without the water system improvements. The water system is experiencing water main breaks and leaks, thus exposing residents to low water pressures and bacteria in the water system.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]
1.) find a new locations for the water distribution system improvements;
2.) use existing Village property & facilities for improvements;
3.) use construction methods that offer minimal impact to environment;
4.) do nothing / health and safety threat continues

No Action Alternative [24 CFR 58.40(e)]:
This is not a viable alternative because the current water distribution system poses a serious threat to the health and safety of the residents. The water system is experiencing water main breaks and leaks, thus exposing residents to low water pressures and bacteria in the water system.

Summary of Findings and Conclusions:
After a review of the environmental assessment, it has been determined that the best action is to use the existing Village property and facilities for these proposed improvements, and use construction methods that offer minimal impact to environment, in order to address the health and safety threats posed by the existing facilities.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure
US Fish and Wildlife	Stop construction is endangered species identified in the County are encountered and construction methods
20 ILCS 3440 Illinois Human Skeletal Remains Protection Act	Stop construction if human skeletal remains are discovered
IL Dept of Agriculture	Water & Sewer Line Construction Standards & Policies (where applicable)

Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]
The project will not result in a significant impact on the quality of the human environment.

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]
The project may significantly affect the quality of the human environment.

Preparer Signature: _____ Date: 05/02/16

Name/Title/Organization: Steve Pamperin, Manager, Steve Pamperin Consulting, LLC

Certifying Officer Signature: _____ Date: 05/02/16

Name/Title: Cheryl Gill, Village of Metcalf Board President

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).