U.S. Department of Housing and Urban Development 451 Seventh Street, SW Washington, DC 20410

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

Project Information

Project Name: Bagley-Townhomes-and-Flats-on-10th

HEROS Number: 900000010454400

Start Date: 02/19/2025

Responsible Entity (RE): DETROIT, PLANNING AND DEVELOPMENT DEPARTMENT

DETROIT MI, 48226

RE Preparer: Kim Siegel

State / Local Identifier: Detroit, Michigan

Certifying Officer: Julie Schneider, Director

Grant Recipient (if different than Responsible Ent

ity):

Point of Contact:

Consultant (if applicable): SES Environmental

Point of Contact: Mary Place

40 CFR 1506.5(b)(4): The lead agency or, where appropriate, a cooperating agency shall prepare a disclosure statement for the contractor's execution specifying that the contractor has no financial or other interest in the outcome of the action. Such statement need not include privileged or confidential trade secrets or other confidential business information.

✓ By checking this box, I attest that as a preparer, I have no financial or other interest in the outcome of the undertaking assessed in this environmental review.

Project Location: Multiple, Detroit, MI 48216

Additional Location Information:

Parcel C is identified as 1563 Bagley Street and is located at the southwest corner of Bagley Street and Trumbull Road. Parcel C contains 0.975 acres of a larger parcel of land identified as Parcel No. 08000246-346. Parcel C will be composed of the following addresses: 1531 Bagley St. Detroit, MI 48216 1533 Bagley St. Detroit, MI 48216 1537 Bagley St. Detroit, MI 48216 1541 Bagley St. Detroit, MI 48216 1543 Bagley St. Detroit, MI 48216 1547 Bagley St. Detroit, MI 48216 1551 Bagley St. Detroit, MI 48216 1555 Bagley St. Detroit, MI 48216 1559 Bagley St. Detroit, MI 48216 1561 Bagley St. Detroit, MI 48216 1565 Bagley St. Detroit, MI 48216 1567 Bagley St. Detroit, MI 48216 CKG East 2021 Limited Dividend Housing Association L.L.C. ("CKGE 2021") is the proposed purchaser of the property. CKGE 2021 does not currently have ownership of the property. Maps depicting the project location, the boundaries of Parcel C, and the locations of the proposed buildings are attached.

Direct Comments to: Penny Dwoinen, Environmental Review Officer, City of Detroit E-mail: dwoinenp@detroitmi.gov

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The project is the first phase in a multi phased redevelopment plan that involves demolition of an existing 87-unit apartment complex and construction of a new 370-unit apartment complex with a mix of unit types. Bagley Townhomes and Flats on 10th (aka Parcel C) located at 1563 Bagley contains 0.975 acre of land. Parcel C, the subject of this EA, is currently developed with one multi-family residential building and is used for residential purposes. CKG East 2021 Limited Dividend Housing Association L.L.C. ("CKGE 2021") will be redeveloping the subject property for multi-family residential usage by demolishing the existing building and constructing four new multi-family residential buildings. Exterior portions of the site will be paved for drive, parking areas, or walkways, other areas include green space areas or landscaping: -Flats North: 3 stories, 18,105 square feet -Flats South: 3 stories, 18,105 square feet Townhome East: 3 stories, 12,268 square feet Townhome West: 3 stories, 12,268 square feet Fifty-four units will be constructed. Amenities will include a community room, in-unit W/D, central A/C, garbage disposals, window coverings, and dishwashers. No parking improvements are planned for Parcel C. Units to include: -studio type A: 347 sf (one unit) -studio type B: 347 sf (one unit) -studio 2: 315 sf each (8 units) -1 BR Type A: 709 sf each (2 units) -1BR 2: 517 sf each (8 units) -1 BR 3: 635 sf each (8 units) -2 BR 1 Type A: 854 sf (1 unit) -2 BR 1 Type B: 854 sf (1 unit) -2 BR 2 Type A: 958 sf (1 unit) -2 BR2 Type B: 958 sf each (3 units) -2 BR 3: 916 sf each (8 units) -3 BR Type A: 1,169 sf (1 unit) -Townhouse Style A: 1,933 sf each (4 units) -Townhouse Style B: 1,909 sf each (8 units) This review is for \$4,366,804 in Choice funding. This review is valid for five years.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

The larger Clement Kern Garden Project is a 370-unit affordable residential property for families located in the Corktown neighborhood in the city of Detroit, Michigan. The existing 87-unit complex was constructed in 1985. The property does have substantive capital needs anticipated in the coming years as a number of systems and components have now reached, surpassed, or are approaching the end of their expected useful service lives (EUL). The project will provide quality, modernized market rate and affordable rental housing options to target a wide range of household incomes. The proposed project will occur on a portion of approximately 3.55 -acre parcel (Parcel No. 08000246-346) located in Detroit's Corktown neighborhood. The proposed project is part of a redevelopment through the HUD Choice Neighborhoods Initiative. As part of the HUD Initiative, the City of Detroit was awarded \$30 million from HUD to implement a Transformation Plan in partnership with American Community Developers, Inc. and others in 2021. When completed, the subject property is planned to include a mix of market rate and affordable rental housing options to target a wide range of household incomes. No other alternatives have been identified.

Existing Conditions and Trends [24 CFR 58.40(a)]:

According to The State of Economic Equity (2021), the median income for Caucasians increased 60% but only 8% for African Americans. Only 5% of Detroit residents live in a middle-class neighborhood, while 59% of Michigan residents as a whole live in these neighborhoods. Approximately 62% of Detroit renters are housing cost-burdened. Middle-class neighborhoods are defined as census tracts where more than half of households are middle or upper middle class. Middle and upper middle-class households range in income from 80% to 300% of the national median income, which is \$52,500 to \$197,000. In Detroit, only 5% of residents reside in middleclass neighborhoods. Currently, there are only 11 census tracts that meet this definition, down from 22 in 2010 (The State of Economic Equity (2021). The project is located in a mixed residential and commercial area in the Corktown neighborhood. The current real estate vacancy rate in Corktown is 24.1%. This is higher than the rate of vacancies in 91.1% of all U.S. neighborhoods. In addition, most vacant housing here is vacant year round. If the development does not proceed, fewer modernized, mix of market rate and affordable rental housing options to target a wide range of household incomes

Maps, photographs, and other documentation of project location and description:

Fig 2B-Parcel C with proposed dev.pdf

Fig 2A-Current Dev with historic features.pdf

Fig 2A-Current Dev with historic features.pdf

Fig 1 - Site Loation Map (rev 3jun24).pdf

(A4) CKG Phase I (ASTI) Reduced.pdf

Determination:

√	Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.13] The project will not result in a significant impact on the quality of human
	environment
	Finding of Significant Impact

Approval Documents:

Signature Page - Bagley Townhomes.pdf

7015.15 certified by Certifying Officer

on:

7015.16 certified by Authorizing Officer

on:

Funding Information

Grant / Project Identification Number	HUD Program	Program Name	Funding Amount
MI5F536CNG120	Public Housing	Choice Neighborhoods	\$4,366,804.00

Estimated Total HUD Funded, Assisted or Insured Amount: \$4,366,804.00

Estimated Total Project Cost [24 CFR 58.2 (a)

\$24,002,052.00

(5)]:

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

Compliance Factors:	Are formal	Compliance determination			
Statutes, Executive Orders, and	compliance steps	(See Appendix A for source			
Regulations listed at 24 CFR §50.4,	or mitigation	determinations)			
§58.5, and §58.6	required?				
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR §50.4 & § 58.6					
Airport Hazards	☐ Yes ☑ No	Cole A. Young Airport is located			
Clear Zones and Accident Potential		approximately 6.12 miles to the			
Zones; 24 CFR Part 51 Subpart D		northeast, Windsor Airport located			
		approximately 6.44 miles to the			
		southeast, and Detroit Metropolitan is			
		located approximately 15 miles to the			
		southwest. The Project is located			
		approximately 6.12 miles from the			
		nearest civil or commercial service			
		airport. The property is not located in a			
		FAA-designated Airport Runway Clear			
		Zone.			
Coastal Barrier Resources Act	☐ Yes ☑ No	Review of the US Fish and Wildlife			
Coastal Barrier Resources Act, as		Service Coastal Barrier Resources			
amended by the Coastal Barrier		System Mapper documents the Project			
Improvement Act of 1990 [16 USC 3501]		is not located within a designated			
3301]		Coastal Zone Management area or Coastal Barrier.			
Flood Insurance	☐ Yes ☑ No	The structure or insurable property is			
Flood Disaster Protection Act of		not located in a FEMA-designated			
1973 and National Flood Insurance		Special Flood Hazard Area. While flood			
Reform Act of 1994 [42 USC 4001-		insurance may not be mandatory in this			
4128 and 42 USC 5154a]		instance, HUD recommends that all			
•		insurable structures maintain flood			
		insurance under the National Flood			
		Insurance Program (NFIP). The project is			
		in compliance with flood insurance			
		requirements. According to a Federal			
		Emergency Management Agency			
		(FEMA) floodplain map, dated February			
		2, 2012 (map number 26163C0280E),			
		the subject property is located in an			
		area of minimal flood hazard. Zone X is			
		the area determined to be outside the			
		500 year flood and protected by levee			
		from 100 year flood.			
STATUTES, EXECUTIVE ORD	DERS, AND REGULATION	ONS LISTED AT 24 CFR §50.4 & § 58.5			
Air Quality	☐ Yes ☑ No	The project's county or air quality			
Clean Air Act, as amended,		management district is in			

particularly section 176(c) & (d); 40		maintenance/attainment for ozone and
CFR Parts 6, 51, 93		non-attainment for Sulfur dioxide. This
, ,		project does not exceed de minimis
		emissions levels or the screening level
		established by the state or air quality
		management district for the pollutant(s)
		_
		identified above. The project is in
		compliance with the Clean Air Act. The
		proposed project will not produce
		significant emissions beyond de minimis
		levels and, therefore, meets the
		definition of an activity classified under
		air permit exemptions (R 336.1291, Rule
		291). Anticipated air emissions from the
		project are between 1 and 2 tpy criteria
		pollutant and less than 0.001 tpy lead,
		fluoride, and mercury. The project is in
		compliance. A Conformity Letter
		prepared by Breanna Bukowski,
		Environmental Quality Analyst for the
		EGLE Air Quality Division, dated March
		25, 2025, indicates the size, scope, and
		duration of the Bagley Townhomes
		Project is similar in scale to a
		documented project in Orange,
		California, and the proposed project
		should not exceed de minimis levels
		included in the federal general
		conformity requirements. A detailed
		conformity analysis was not required.
		Fugitive Dust Measures to control
		fugitive dust will be utilized to ensure
		that construction projects do not result
		in erosion and formation of dust. The
		Best Management Practices (BMPs)
		employed with comply with the City's
		site plan approval process and will be
		effective in controlling construction-
		related fugitive dust.
Coastal Zone Management Act	☐ Yes ☑ No	Review of the Coastal Zone
Coastal Zone Management Act,		Management website documents the
sections 307(c) & (d)		Project is not located within a
		designated Coastal Zone Management
		area.
	I	<u> </u>

Adverse environmental impacts can be mitigated. With mitigation, identified in the mitigation section of this review, the project will be in compliance with contamination and toxic substances requirements. Lists and summaries of previous reports are provided in attachments. CONTAMINATION: Historical activities conducted at the property and deposition of fill material has resulted in soil impact at the property. Metals, VOCs, and PAHs have been detected in soil. On December 19, 2024, EGLE approved the submitted Evaluation Plan and Response Activity Plan for the Project, which included plan for incremental sampling. Since that time, we have updated the scope of work for the site to include the removal of a minimum of four feet of soil across the entire Project site to align with corrective action to be conducted at adjoining parcels. This scope eliminates the requirement for incremental sampling. The updated proposed response activities for Parcel C are based on the EGLE-approved ResAP for Parcel D adjacent the Project site. This plan was approved March 17, 2025. Excavation will occur to the property boundaries in all directions. The soil will be disposed off-site at a licensed Type 2 landfill. Prior to the removal of the soil from the subject property will be surveyed to determine the current grade elevations. Following completion of excavation activities, the subject property to near the bin property to return the subject property to near the	 	_	
current grade. Any soils imported to the subject property as part of the development of the direct contact	✓ Yes	□ No	the mitigation section of this review, the project will be in compliance with contamination and toxic substances requirements. Lists and summaries of previous reports are provided in attachments. CONTAMINATION: Historical activities conducted at the property and deposition of fill material has resulted in soil impact at the property. Metals, VOCs, and PAHs have been detected in soil. On December 19, 2024, EGLE approved the submitted Evaluation Plan and Response Activity Plan for the Project, which included plan for incremental sampling. Since that time, we have updated the scope of work for the site to include the removal of a minimum of four feet of soil across the entire Project site to align with corrective action to be conducted at adjoining parcels. This scope eliminates the requirement for incremental sampling. The updated proposed response activities for Parcel C are based on the EGLE-approved ResAP for Parcel D adjacent the Project site. This plan was approved March 17, 2025. Excavation will occur to the property boundaries in all directions. The soil will be disposed off-site at a licensed Type 2 landfill. Prior to the removal of the soil from the subject property will be surveyed to determine the current grade elevations. Following completion of excavation activities, the subject property will be imported to the subject property to near the current grade. Any soils imported to the subject property to return the subject property as part of the
barrier will be sampled periodically to			barrier will be sampled periodically to

ensure they are not contaminated prior to being utilized for the barrier. At a minimum, the imported soils will be sampled and analyzed VOCs, PNAs, and the metals arsenic, lead, and selenium. Additional analysis may be conducted as appropriate. Samples will be collected prior to the placement of the soil on to the property and analyzed at a rate of one sample per every 500 cubic yards of imported soil. Following completion of site grading and hardscape installation, the subject property will be surveyed to confirm that a minimum of four feet of clean fill are present above any potential remaining fill materials. Following completion of the excavations for each building foundation on the subject property, VSR samples will be collected from beneath the building foundations. The samples will be collected in accordance with the S3TM guidance document. The VSR samples will be analyzed for VOCs, PNAs, and the Michigan 10 metals. In addition, all excavation and disposal will be conducted in compliance with the applicable local, State, and Federal regulations. ASBESTOS: The 2023 report indicates a survey was conducted for all 12 buildings, which includes Parcel C. Basement wall texture in each building and 40 sets of fire doors and frame sets were confirmed or presumed asbestos containing. According to the classification guidelines, the wall texture was classified as a Category II nonfriable ACM. No renovations have been conducted since April 2023. As such, the 2023 asbestos survey is considered valid. Any asbestos will be abated in conformance with federal, state, and local guidelines. HAZARDOUS MATERIALS/PRE DEMOLITION SURVEY: Prior to demolition of the buildings, a pre-demolition survey will be

		completed. Lead-based paint is not
		anticipated to be present. Universal
		Waste and other identified potential
		hazardous that are present at the
		subject property will be
		handled/disposed of in accordance with
		applicable requirements. During an
		asbestos containing materials inspection
		-
		conducted in 2023, basement wall
		texture (white) was identified as ACBM.
		Any asbestos will be abated in
		conformance with federal, state, and
		local guidelines.
Endangered Species Act	☐ Yes ☑ No	The U.S. Fish and Wildlife Service
Endangered Species Act of 1973,		Information for Planning and
particularly section 7; 50 CFR Part		Consultation (iPac) tool was referenced.
402		A list of protected species obtained
		identified the Indiana bat (Endangered),
		the Rufa Red Knot (Threatened); The
		Eastern Massasauga (Threatened); The
		Monarch Butterly (Proposed
		Threatened); and the Eastern Prairie
		Fringed Orchid (Threatened). The
		Indiana bat hibernate in caves, mines, or
		similar structures during the winter.
		During the summer, they prefer
		forested/wooded habitats where the
		roost forage and travel to some
		adjacent and interspersed non-forested
		habitats such as emergent wetlands and
		adjacent edges of agricultural fields.
		Small numbers of rufa red knots
		sometimes use manmade freshwater
		habitats along inland migration routes.
		Rufa red knots generally nest in dry,
		slightly elevated tundra locations, often
		on windswept slopes with little
		vegetation. The Eastern Massasauga
		maybe found in variety of wetland
		habitats, particularly prairie fens, and
		lowland coniferous forested, such as
		cedar swamps. Monarch butterflies
		live mainly in prairies, meadows,
		grasslands and along roadsides, across
		most of North America. The Eastern
		Prairie Fringed Orchid prefers wet
	1	Frame Finiged Ordina prefets wet

Explosive and Flammable Hazards Above-Ground Tanks)[24 CFR Part 51 Subpart C	☐ Yes ☑ No	habitats in full sun, like prairies and sedge meadows. No critical habitats were identified at the Site location. No wetland areas are present on the subject property. The subject property is located in an urban area which has been developed since at least 1884. Based on this information, the identified endangered species are not likely present on the subject property. Furthermore, the species identified above have never been observed at the project location, and no suitable habitats are located at the property. In accordance with HUD's Guidebook entitled "Siting of HUD-Assisted Projects Near Hazardous Facilities" (hereafter "Guidebook"), SES searched a 1-mile radius around the Project for above ground storage tanks (ASTs) containing flammable materials based on review of a 2022 regulatory database report. Review of the regulatory database documented 12 active AST sites within a one-mile radius of the subject property. Based on tank distances and the presence of numerous buildings between the properties and the subject property, the ASTs are not anticipated to have any impact on the proposed developments associated with the project.
Farmlands Protection	☐ Yes ☑ No	This project does not include any
Farmland Protection Policy Act of		activities that could potentially convert
1981, particularly sections 1504(b) and 1541; 7 CFR Part 658		agricultural land to a non-agricultural
and 1541; / CFK Part 658		use. The project is in compliance with the Farmland Protection Policy Act.
Floodplain Management	☐ Yes ☑ No	This project does not occur in the
Executive Order 11988, particularly		FFRMS floodplain. The project is in
section 2(a); 24 CFR Part 55		compliance with Executive Orders
		11988 and 13690.
Historic Preservation	☑ Yes □ No	Based on Section 106 consultation the
National Historic Preservation Act of		project will have No Adverse Effect on
1966, particularly sections 106 and		historic properties. Conditions: Other.
110; 36 CFR Part 800		Upon satisfactory implementation of

the conditions, which should be monitored, the project is in compliar	
monitored the project is in complian	
	ce
with Section 106. This project has	
been given a Conditional No Adverse	
Effect determination (Federal	
Regulations 36 CFR Part 800.5(b)) on	
properties that are listed or eligible f	or
listing in the National Register of	
Historic Places, as long at the followi	ng
conditions are met: * The work is	
conducted in accordance with the	
specifications submitted to the	
Preservation Specialist on 7/18/2024	,
and any changes to the scope of wor	
for the project shall be submitted to	
Preservation Specialist for review an	
approval prior to the start of work.	
The archaeological monitoring plan,	
dated 9/16/24, is followed.	
Noise Abatement and Control ☐ Yes ☑ No ☐ A Noise Assessment was conducted.	The
Noise Control Act of 1972, as noise level was acceptable: 58.0 db.	See
amended by the Quiet Communities noise analysis. The project is in	
Act of 1978; 24 CFR Part 51 Subpart compliance with HUD's Noise	
B regulation. Calculations were enter	ed
into the HUD Exchange Day /Night	
Noice Level Calculator, available at	
https://www.hudexchange.info/envi	ron
mental-review/dnl-calculator/ Revi	ew
of aerial photography and topograph	ic
maps conducted to determine the	
presence of railroads within 3,000 fe	et
of proposed development. Two	
railroads are located within 3,000 fee	t
of the proposed development. The	
railroad are located approximately	
1,640 feet to the southwest and 2,60	0
feet to the south. A Federal Railroad	
Administration Office of Safety Analy	sis
Crossing Inventory sheet was review	
for these railroads. Review of five	
railroad crossing inventory documen	:s
for Bagley Street and Rosa Parks	
Boulevard were reviewed for the Per	n
Central Railroad located to the	
southwest. No rail traffic operations	
were documented on each of the sho	ets

for the railroad line to the southwest. Review of crossing inventory sheets for the rail line to the south documented the nearest crossing as Ambassador Bridge, and 20 rail cars were documented. The DNL calculator was used to assess noise from railroad operations. The railroad DNL is 54 dB, which is below HUD's Acceptable (<65 dB) range. The Project is located within 15 miles of three civil airports: Coleman A. Young Airport is located 6.12 miles to the northeast, Windsor Airport located approximately 6.44 miles to the southeast, and Detroit Metropolitan is located approximately 15 miles to the southwest. An Airport Noise Worksheet was used to calculate noise levels at the airports; and given an evaluation of aviation operations and per HUD guidelines (less than 9,000 air carriers per day, less than 18,000 air taxis per day, less than 18,000 military crafts per day, and less than 72,000 total operations per day), it can be assumed that the noise attributed to the airplanes will not extend beyond the boundaries of the airports. An Airport Master Record was obtained through the U.S. Department of Transportation Federal Aviation Administration. The annual number of operations at both facilities does not exceed thresholds provided in the HUD Airport Noise Worksheet. Additionally, SES reviewed a 2011 Airport Noise Exposure Contours map, which documents noise levels not exceeding 55 dBs extend off the airport property to the east but more than 5 feet from the subject property. The Michigan Department of Transportation Traffic County Database System (TCDS) was reviewed to determine the presence of busy roadways within 1,000 feet of the subject property. The HUD (DNL) Calculator was utilized to obtain a

Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149 Wetlands Protection Executive Order 11990, particularly sections 2 and 5 Wild and Scenic Rivers Act Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	☐ Yes ☑ ☐ Yes ☑	No No	which assumed 92% automobiles, 4% medium trucks, and 4% heavy trucks. The DNL from the roadway source (Michigan Avenue) to the property boundary (714 feet) was calculated. The roadway DNL is 55 dB, which is below HUD's Acceptable (<65 dB) range. As a precautionary measure, a 1% traffic increase was used to estimate traffic volumes through 2034. The DNL is 58 dB, which is below HUD's Acceptable (<65 dB) range. The combined DNL for each noise source (based on the 2015 to 2025 traffic projections as well as the 2015 to 2034 projections) is 58 dB which is below HUD's Acceptable (<65 dB) range. Based on the calculated DNL, noise mitigation is not required. The project is not located on a sole source aquifer area. The project is in compliance with Sole Source Aquifer requirements. No wetlands on or near the site. Therefore, the project will not impact any wetlands and is in compliance with EO 11990 This project is not within proximity of a NWSRS river. The project is in compliance with the Wild and Scenic Rivers Act.	
ENVIRONMENTAL JUSTICE				

Environmental Justice	☐ Yes ☑ No	No adverse environmental impacts were
Executive Order 12898		identified in the project's total
		environmental review. The project is in
		compliance with Executive Order 12898.

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27]

Impact Codes: An impact code from the following list has been used 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	Impact	Impact Evaluation	Mitigation				
Assessment Code							
Factor							
LAND DEVELOPMENT							
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design		This development is compatible with the City's goals for continued residential development and will have a positive impact on the area within which it exists. The proposed development activities are anticipated to help continue to revitalize the area immediately surrounding the Project. The project is not expected to contribute to urban sprawl due to its limited scope. According to the City of Detroit Zoning Map, the subject property parcels are zoned as "PD" for "Planned Development District". This classification will remain the same following completion of the project.					
Soil Suitability / Slope/ Erosion / Drainage and Storm Water Runoff		Soil at the Project property are suitable for project activities. Current future use plans for the subject property include the redevelopment with four new multi-family residential buildings. The buildings will include two town-home type buildings along Bagley Street and two three-story apartment buildings. The townhome buildings will be constructed on poured concrete basement foundations with poured concrete floors. The basements will be excavated to approximately					

Environmental	Impact	Impact Evaluation	Mitigation
Assessment	Code	inipact Evaluation	iviitigation
	Code		
Factor		sight foot below goods. The against the	
		eight feet below grade. The apartment	
		buildings will be constructed on poured concrete slab on-grade foundations. As part	
		of the construction of the apartment	
		buildings, all soils beneath the future slabs	
		will be excavated to remove all urban fill	
		materials from within the building foundation	
		or a minimum of 4 feet bgs. In addition, all	
		former utilities beneath each building will be	
		removed to at least five feet from the building	
		foundation. Based on all of the soils beneath	
		each building being excavated to a minimum	
		depth of 4 feet below grade, the building	
		foundation areas were excluded from the ISM	
		sampling. Following completion of the	
		excavations for the building foundations on	
		the subject property, VSR samples will be	
		collected from the excavations to determine if	
		all impacted urban fill has been removed from	
		beneath the building foundations. The	
		samples will be collected in accordance with	
		the S3TM guidance document. The VSR	
		samples will be analyzed for VOCs, PNAs, and	
		the Michigan 10 metals. In addition, all excavation and disposal will be conducted in	
		compliance with the applicable local, State,	
		and Federal regulations. The vertical and	
		horizontal locations of the samples and the	
		depth(s) of the excavation will be	
		documented. In addition, photographs	
		documenting the removal of the urban fill will	
		be collected during and after excavation. If	
		the results of these VSR samples indicate that	
		no impacts remain present beneath the	
		proposed buildings, the building foundations	
		(either slab on grade or basements) will be	
		excluded from the direct contact barrier if	
		implemented. If the VSR sample results	
		indicate that impacts will remain beneath the	
		proposed buildings, the foundations will be	
		considered part of the direct contact barrier.	
		Prior to the construction of the building	

Environmental	Impact	Impact Evaluation	Mitigation		
		impact Evaluation	· · · · · · · · · · · · · · · · · · ·		
	300.0				
Hazards and Nuisances including Site Safety and Site- Generated Noise	Impact Code	foundations, the berm area on the southern portion of the subject property will be excavated and disposed off-site. The excavation and disposal will be conducted in compliance with the applicable local, State, and Federal regulations. No other soil activities will be conducted at the Project. Soil erosion control measures will be installed, as necessary, to control soil erosion during construction. A local soil erosion permit may be required. Stormwater runoff at the project site will drain to site soils or enter stormwater catch basins in the road rights-of-way and in the parking areas. Noise intensive construction activities will be limited to the days and hours specified under the City's noise ordinance. These days and hours shall also apply to any servicing of equipment and to the delivery and removal of materials to and from the site. All construction equipment shall be equipped with mufflers and sound control devices (e.g., intake silencers and noise shrouds) no less effective than those provided on the original equipment and no equipment shall have an un-muffled exhaust. Stationary equipment shall be placed so as to maintain the greatest possible distance from sensitive uses. Road hazards will be addressed through installation and updating of crosswalk signs and control systems, which are under the city's control. Air Quality is not expected to be affected by the project though short term dust during construction is a potential concern and will be	Mitigation		
		construction is a potential concern and will be addressed by utilizing a best practices approach with dust control measures in place during construction activities. Any emissions would be short-term and localized and would not result in any significant adverse effects on			
		overall ambient air quality.			
			l		
SOCIOECONOMIC					

Environmental Assessment	Impact Code	Impact Evaluation	Mitigation
Factor			
Employment and		The Project is not expected to alter the	
Income Patterns		demographic nature or character of the	
		community due to the slight increase in the	
		local population. The Project will provide	
		temporary construction jobs during the	
		construction phase and continuing full and part-time employment for maintenance and	
		management of the development. Future	
		residents of this development will help to	
		support existing and future commercial	
		enterprises in the area.	
Demographic		The proposed project would not result in	
Character Changes		physical barriers or reduced access that would	
/ Displacement		isolate a particular neighborhood or	
,		population group. The proposed project	
		would not induce a substantial amount of	
		unplanned growth. Construction would result	
		in temporary construction job growth at the	
		project site. It is anticipated that construction	
		employees not already living in Detroit would	
		commute from elsewhere in the Detroit area	
		rather than relocating to the neighborhood	
		for a temporary construction assignment.	
		Thus, construction is not anticipated to	
		generate a substantial, unplanned population	
		increase. A robust Relocation Plan was	
		developed to assist residents during	
		redevelopment of the site and to prevent	
		displacement. All residents will be given the	
Fordersonantal		right to return to the site upon completion.	
Environmental		No superfund or hazardous waste treatment,	
Justice EA Factor		storage, and disposal sites are located within 1 mile of the Subject Property. The levels of	
		pollution within 1 mile exceed the state	
		average except for superfund. The population	
		within 7 miles surrounding the Subject	
		Property consists of 86 percent are persons of	
		color, 62 percent are low income earners, 1	
		percent are linguistically isolated, 15 percent	
		hold less than a high school education, 7	
		percent are under the age of 5 years, and 14	
		percent are over the age of 64 years. The	

Environmental	Impact	Impact Evaluation	Mitigation
Assessment	Code		
Factor			
		project entails redeveloping the subject	
		property for multi-family residential usage by	
		demolishing the existing building and	
		constructing four new multi-family residential	
		buildings. Exterior portions will be paved for	
		drive, parking areas, or walkways, green space	
		areas, or will be landscaped. When	
		completed, the subject property is planned to	
		include a mix of market rate and affordable	
		rental housing options to target a wide range	
		of household incomes. The project will not	
		have a disproportionately high adverse effect	
		on human health or environment of minority	
		populations and/or low-income populations.	
		An EJ Screen Report is provided as an	
		attachment (Please note, the EJ Screen Tool	
		was down at the time of EA preparation, so	
		documentation for a property approximately	
		6 miles to the east is referenced).	
	COMN	NUNITY FACILITIES AND SERVICES	_
Educational and		This housing development will have no	
Cultural Facilities		immediate effect to any educational facilities.	
(Access and		Public education is offered in the area by	
Capacity)		Detroit Public Schools. Several preschools,	
		elementary, middle and high schools are	
Camananaial		located within three miles of the Project.	
Commercial		The project will add to the current residential	
Facilities (Access		base and is not expected to negatively impact	
and Proximity)		existing commercial facilities that are located	
		around the project site. The project is	
		expected to bring in new residents, which will benefit the neighboring commercial	
		establishments. Commercial businesses and	
		retail establishments are available along	
		Trumbull Street to the east, Bagley Street to	
		the north, and Labrosse Street to the south.	
Health Care / Social		No health care facility will be negatively	
Services (Access		impacted by this Project. A sufficient number	
and Capacity)		of hospitals are located in and around Detroit	
a.ia capacity;		to accommodate new residents of the	
		Property. The location is highly convenient	
		for medical services. Henry Ford Hospital,	

Environmental Assessment	Impact Code	Impact Evaluation	Mitigation
Factor			
		main hospital, the largest medical hospital in the region, is just 2 3/4 miles away at 2799 West Grand Boulevard. Additionally, no social services will be negatively impacted by the Project activities. There will be no increase in the demand for social services as a result of the project activities. Affordable housing options for those in need could potentially reduce the number of people requiring social services. There is adequate access to social services including health care, family services, etc. within five miles of the Project. No health care services will be provided onsite.	
Solid Waste Disposal and Recycling (Feasibility and Capacity)		The Project area is not anticipated to have any impact on solid waste management facilities and services since there will be no increase in occupancy. Solid wastes generated during construction activities will be removed by a private contractor. Solid wastes generated by future residents of the development will be removed by the municipal waste hauler. No contracts for waste removal are in place at this time.	
Waste Water and Sanitary Sewers (Feasibility and Capacity)		A minor increase in wastewater flows is expected. The existing municipal wastewater system will meet the increased demand. Additionally, the Project activities are not expected to increase pollutant loads in storm water. Catch basins in roadways will capture storm water, which will be discharged to the City of Detroit storm water system.	
Water Supply (Feasibility and Capacity)		The additional housing units will not impact the current capacity of this system. There is sufficient water capacity for the Project, as well as additional development in the area.	
Public Safety - Police, Fire and Emergency Medical		The Project will have no adverse effect in the need for police services due to the additional inhabitants. Dialing 911 accesses police and emergency services and they are adequate to serve the development. The City of Detroit Police Department is located within 1/4 mile of the project. The Project will have no	

Environmental Assessment	Impact Code	Impact Evaluation	Mitigation
Factor	Code		
ractor		adverse effect in the need for fire services due to the additional inhabitants. There is nothing in the proposed Project use that would indicate a disproportionate need for	
Parks, Open Space and Recreation (Access and Capacity)		EMS services. This Project is not expected to have any impact on open space. Roosevelt Park is located approximately 1/2 mile to the northwest, and the Detroit Riverwalk is located 1 3/4 miles to the southeast. Both properties can be reached via public transportation. Based on the small increase in population, the proposed project will not cause any overloading of these facilities.	
Transportation and Accessibility (Access and Capacity)		The project activities will have no negative impact on public transportation. There are likely to be short-term impacts to traffic in the area of the Project due to the construction at the Project. Temporary lane closures and/or associated detours may be expected. There will be sufficient onsite parking available for the tenants. The Detroit bus system operates seven days a week and provides services throughout the Detroit area. The nearest public bus stop is located at the intersection of Bagley Street and Trumbull Street. The buses have connection points to recreational, medical, and educational facilities throughout Detroit.	
	Т	NATURAL FEATURES	T
Unique Natural Features /Water Resources		Project activities will not pose a threat to any of the unique natural features within Detroit. Construction/redevelopment activities will be limited to the Project area and none of the surrounding properties will be affected by the Project. Additionally, there are no unique natural features known to pose any safety hazards to any Project activities.	
Vegetation / Wildlife (Introduction, Modification,		The Project has been developed for commercial and residential purposes since at least 1884. Therefore, vegetation and wildlife in the area of the Project will not be	

Environmental Assessment Factor	Impact Code	Impact Evaluation	Mitigation
Removal,		negatively impacted by the	
Disruption, etc.)		construction/redevelopment activities at the	
Distription, etc.,		Project. The Project is not anticipated to	
		impact unique natural habitats, ecosystems or	
		any threatened and endangered wildlife.	
Other Factors 1		7	
Other Factors 2			
		CLIMATE AND ENERGY	
Climate Change		The project activities will not influence the	
		environment in such a way that it will impact	
		the carbon cycle through long-term ongoing	
		greenhouse gas emissions. The project	
		activities consists of a building addition for	
		housing units and may use electrical, diesel or	
		gasoline powered equipment during	
		construction activities. Additionally, the	
		project is located in a historically urban area,	
		therefore no habitat fragmentation will be	
		caused by the project activities. Review of a	
		climate impact map indicates the City of	
		Detroit has consistently maintained an	
		•	
		average temperature, in warmer months, of	
		70 degrees F from 1986 through 2005;	
		however, temperature predictions from 2020	
		through 2039 project a 2-degree temperature	
		increase. As such, warming trends are	
		anticipated; however, given the limited scope	
		of the project (2-year construction period	
		with limited air emissions), the project is not	
		expected to have an adverse climate effect. In	
		addition, proposed development will employ	
		new construction in accordance with current	
		building regulations, and no retrofitting of	
		existing materials is expected.	
Energy Efficiency		The project will meet current State and local	
		codes concerning energy consumption. Other	
		than natural gas and coal used to generate	
		the electricity for the project it is not	
		anticipated to have a substantial effect on the	
		use, extraction, or depletion of a natural	
		resource. Energy utilization during	
	1	construction is expected to be consistent with	

Environmental Assessment Factor	Impact Code	Impact Evaluation	Mitigation
		typical construction equipment. The location is served by local utility providers. The addition will be constructed utilizing energy savings measures such as hot water tank, furnace, and appliance replacements/upgrades.	

Supporting documentation

Maps Showing Commercial and Government Properties in the Project Area Reviewed.pdf

Map Depicting Project Location and Nearby Commercial Properties Revised.pdf
Transit hospital commercial property map.pdf
climate prediction map.pdf

Additional Studies Performed:

* Phase I Environmental Site Assessment, Clement Kern Apartments, prepared by CTI and Associates, Inc., dated June 12, 2003 and revised June 9, 2003 * Phase II Environmental Site Assessment, Clement Kern Apartments, prepared by CTI and Associates, Inc., dated July 7, 2003 * Phase I Environmental Site Assessment, Clement Kern Gardens (East Portion), prepared by ASTI Environmental, dated September 30, 2022 Asbestos-Containing Material Inspection, Clement Kern Gardens, prepared by ASTI Environmental, dated April 10, 2023 * Limited Phase II Environmental Site Assessment, Clement Kern Gardens, prepared by ASTI Environmental, dated October 4, 2023 * Response Activity Plan -Evaluation Plan and Remedial Action Plan, Parcel C, prepared by SES Environmental, dated December 2, 2024 * EGLE Correspondence, December 19, 2024 Correspondence from CKG to the City of Detroit, March 20, 2025 Hazardous Materials Survey

Field Inspection [Optional]: Date and completed

by:

Danielle Vargo,

8/24/2022 12:00:00 AM

(A4) CKG Phase I (ASTI) Reduced.pdf

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:

1. Attainment Status for the National Ambient Air Quality Standards 2. Coastal Barrier Resources System Mapper 3. Phase I Environmental Site Assessment, Clement Kern Apartments, prepared by CTI and Associates, Inc., dated June 12, 2003 and revised June 9, 2003 4. Phase II Environmental Site Assessment, Clement Kern Apartments,

prepared by CTI and Associates, Inc., dated July 7, 2003 5. Phase I Environmental Site Assessment, Clement Kern Gardens (East Portion), prepared by ASTI Environmental, dated September 30, 2022 6. Limited Phase II Environmental Site Assessment, Clement Kern Gardens, prepared by ASTI Environmental, dated October 4, 2023 7. Response Activity Plan -Evaluation Plan and Remedial Action Plan, Parcel C, prepared by SES Environmental, dated December 2, 2024 8. EGLE Correspondence, December 19, 2024 9. U.S. FWS Federally Listed Threatened, Endangered, Proposed, and Candidate Species List 10. Acceptable Separation Distance map; Phase I ESA regulatory database report dated 2022 11. Custom Soil Resource Report for Wayne County, Michigan, USDA 12. Federal Emergency Management Agency (FEMA) floodplain map, dated February 2, 2012 (Map No. 26163C0280E) 13. Section 106 Application submitted July 10, 2023; SHPO response letters dated July 21, 2023 and December 4, 2023; Archeological Survey dated October 2023; National Register of Historic Places Map; City of Detroit Historic Districts Map 14. Railroad crossing inventories; Michigan DOT TCDS; maps of nearest airports; airport noise contour map; HUD Exchange DNL Calculator 15. Sole Source Aquifer Map 16. National Wetlands Inventory Map 17. National Wild and Scenic Rivers System Map 18. EJ Screen Report Asbestos-Containing Material Inspection, Clement Kern Gardens, prepared by ASTI Environmental, dated April 10, 2023 Hazardous Materials Survey

List of Permits Obtained:

Public Outreach [24 CFR 58.43]:

Beginning in 2019, the developer started holding information sessions with the tenants for their input on the redevelopment plans. Ongoing resident engagement continues on a monthly basis. The City of Detroit will post the publication and a copy of this Environmental Assessment on their website during the public comment period.

Cumulative Impact Analysis [24 CFR 58.32]:

The cumulative impacts anticipated for this project are primarily associated with providing additional housing units for persons of various incomes in the area. The project is consistent with the City's plan and anticipated growth of the immediate and surrounding neighborhoods and therefore not considered detrimental. There is no negative cumulative impact on the environment that would result from proposed site development activities.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

No alternative locations were considered for the Project since the Project consists of redevelopment of an existing residential complex. No variations of site development were proposed, and no scopes or size of the project were changed.

No Action Alternative [24 CFR 58.40(e)]

No action could possibly discourage other development near the Project, thereby, negatively affecting the City of Detroit and its revenues. No action does not provide needed housing for low income residents. The existing buildings would continue to deteriorate without proposed development.

Summary of Findings and Conclusions:

When completed, the subject property is planned to include a mix of market rate and affordable rental housing options to target a wide range of household incomes. The existing 87-unit complex was constructed in 1985. The property does have substantive capital needs anticipated in the coming years as a number of systems and components have now reached, surpassed, or are approaching the end of their expected useful service lives (EUL). The project will provide quality, modernized market rate and affordable rental housing options to target a wide range of household incomes. The project will provide several benefits to the region and no adverse impacts have been identified.

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

Summarized below are 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,	Mitigation Measure or	Comments	Mitigation	Complete
Authority, or	Condition	on	Plan	
Factor		Completed		
		Measures		
Historic	During government-to-	N/A	During	
Preservation	government tribal consultation		government-	
	(54 U.S.C. 302706 (b)), the		to-government	
	Forest County Potawatomi		tribal	
	Community Tribal Historic		consultation	
	Preservation Officer made a		(54 U.S.C.	
	request for archaeological		302706 (b)),	
	monitoring of the site; due to		the Forest	
	the prevalence of Potawatomi		County	
	villages and fisheries along the		Potawatomi	
	Detroit River and the depth of		Community	

excavation proposed. They raised concerns that this undertaking could disturb previously undisturbed subsurface resources. The City of Detroit and SHPO have recommended monitoring across the Clement Kern Development site (Bagley Townhomes & 10th Street Flats, West of 10th, and Trumbull Developments) in order to address the concerns of the Forest County Potawatomi and avoid adverse effects to potential precontact and historic period archaeological resources. An archaeology monitoring plan was submitted for consideration and approved through consultation with SHPO and Tribes.

Tribal Historic Preservation Officer made a request for archaeological monitoring of the site; due to the prevalence of Potawatomi villages and fisheries along the Detroit River and the depth of excavation proposed. They raised concerns that this undertaking could disturb previously undisturbed sub-surface resources. The City of Detroit and SHPO have recommended monitoring across the Clement Kern Development site (Bagley Townhomes & 10th Street Flats, West of 10th, and Trumbull Developments) in order to address the concerns of the Forest County

Potawatomi

			and avoid adverse effects to potential precontact and historic period archaeological resources. An archaeology monitoring plan was submitted for consideration and approved through consultation with SHPO and Tribes.
Contamination and Toxic	On December 19, 2024, EGLE approved the submitted	N/A	A Response activity Plan, dated
Substances	ResAP. Since that time, we have updated the scope of		December 2,
	work for the site to include the		2024, indicates
	removal of a minimum of four		the townhome
	feet of soil across the entire		buildings will
	Project site. Based on recent		be constructed
	conversations with EGLE, this		on poured
	scope eliminates the		concrete
	requirement for incremental		basement
	sampling.		foundations
			with poured
	The updated proposed		concrete
	response activities for Pacel C		floors. The
	are based on the EGLE-		basements will
	approved Response Activity		be excavated
	Plan for Parcel D adjacent the		to
	Project site. This plan was approved March 17, 2025.		approximately eight feet
	At least four feet of soil will be		below grade.
	removed from the entire		The apartment
	subject property. Excavation		buildings will
	will occur to the property		be constructed
	boundaries in all directions.		on poured
	The soil will be disposed off-		concrete slab
	site at a licensed Type 2		on-grade
	landfill. Copies of load tickets,		foundations.
	bills of lading, and/or		As part of the

manifests for each shipment of soil transported off the subject property for disposal will be retained by the owner. Prior to the removal of the soil from the subject property will be surveyed to determine the current grade elevations. Following completion of excavation activities, the subject property will be resurveyed to confirm a minimum of four feet of soils have been removed.

Clean soil will be imported to the subject property to return the subject property to near the current grade. Any soils imported to the subject property as part of the development of the direct contact barrier will be sampled periodically to ensure they are not contaminated prior to being utilized for the barrier. At a minimum the imported soils will be sampled and analyzed VOCs by US EPA Method 8260, PNAs by US EPA Method 8270 and the metals arsenic, lead, and selenium by USEPA Methods 6020 and 7471. Additional analysis may be conducted as appropriate. Samples will be collected prior to the placement of the soil on to the property and analyzed at a rate of one sample per every 500 cubic yards of imported soil. Following completion of site grading and hardscape installation, the subject property will be surveyed to confirm that a minimum of four feet of clean

construction of the apartment buildings, all soils beneath the future slabs will be excavated to remove all urban fill materials from within the building foundation or a minimum of 4 feet bgs. In addition, all former utilities beneath each building will be removed to at least five feet from the building foundation. Based on all of the soils beneath each building being excavated to a minimum depth of 4 feet below grade, the building foundation areas were excluded from the ISM sampling. EGLE approved the Response **Activity Plan** on December 19, 2024.

	fill are present above any potential remaining fill materials.			
	Current future use plans for the subject property include the redevelopment with four new multifamily residential buildings. Following completion of the excavations for each building foundation on the subject property, VSR samples will be collected from beneath the building foundations. The samples will be collected in accordance with the S3TM guidance document. The VSR samples will be analyzed for VOCs, PNAs, and the Michigan 10 metals.			
Contamination and Toxic Substances	Follow all federal, local, and state guidelines for asbestos abatement for the demolition of buildings.	N/A	See attached mitigation plan.	

Project Mitigation Plan

The developer is responsible for implementing the mitigation plan as described during the redevelopment of the property. Following completion of the mitigation plan, the developer or their consultant will create a Documentation of Due Care Compliance that document the activities conducted as part of the mitigation plan and demonstrate that the property is in compliance with Michigan environmental regulations. Once the Documentation of Due Care Compliance is completed, it will be reviewed by the City of Detroit, the Michigan State Housing Development Authority, and finally the Michigan department of Environment, Great Lakes, and Energy (EGLE). Once EGLE is comfortable they will approve the plan concurring that the property is in compliance with the applicable State of Michigan Environmental regulations. Approval of the Documentation of Due Care Compliance is expected to be completed prior to the completion of building construction.

Mitigation Plan - Bagley Townhomes.pdf

Supporting documentation on completed measures

APPENDIX A: Related Federal Laws and Authorities

Airport Hazards

General policy	Legislation	Regulation
It is HUD's policy to apply standards to		24 CFR Part 51 Subpart D
prevent incompatible development		
around civil airports and military airfields.		

1. To ensure compatible land use development, you must determine your site's proximity to civil and military airports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian airport?

✓ No

Based on the response, the review is in compliance with this section. Document and upload the map showing that the site is not within the applicable distances to a military or civilian airport below

Yes

Screen Summary

Compliance Determination

Cole A. Young Airport is located approximately 6.12 miles to the northeast, Windsor Airport located approximately 6.44 miles to the southeast, and Detroit Metropolitan is located approximately 15 miles to the southwest. The Project is located approximately 6.12 miles from the nearest civil or commercial service airport. The property is not located in a FAA-designated Airport Runway Clear Zone.

Supporting documentation

Attachment 14 - Noise Documentation for airports revised.pdf

Are formal compliance steps or mitigation required?

Yes

√ No

Coastal Barrier Resources

General requirements	Legislation	Regulation
HUD financial assistance may not be	Coastal Barrier Resources Act	
used for most activities in units of the	(CBRA) of 1982, as amended by	
Coastal Barrier Resources System	the Coastal Barrier Improvement	
(CBRS). See 16 USC 3504 for limitations	Act of 1990 (16 USC 3501)	
on federal expenditures affecting the		
CBRS.		

1. Is the project located in a CBRS Unit?

✓ No

Document and upload map and documentation below.

Yes

Compliance Determination

Review of the US Fish and Wildlife Service Coastal Barrier Resources System Mapper documents the Project is not located within a designated Coastal Zone Management area or Coastal Barrier.

Supporting documentation

Attachment 2 CBRS map revised.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Flood Insurance

General requirements	Legislation	Regulation
Certain types of federal financial assistance may not be	Flood Disaster	24 CFR 50.4(b)(1)
used in floodplains unless the community participates	Protection Act of 1973	and 24 CFR 58.6(a)
in National Flood Insurance Program and flood	as amended (42 USC	and (b); 24 CFR
insurance is both obtained and maintained.	4001-4128)	55.1(b).

1. Does this project involve <u>financial assistance for construction, rehabilitation, or acquisition of a mobile home, building, or insurable personal property?</u>

No. This project does not require flood insurance or is excepted from flood insurance.

✓ Yes

2. Upload a FEMA/FIRM map showing the site here:

Attachment 12 - Flood map(2).pdf

The Federal Emergency Management Agency (FEMA) designates floodplains. The <u>FEMA Map Service Center</u> provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs). For projects in areas not mapped by FEMA, use the best available information to determine floodplain information. Include documentation, including a discussion of why this is the best available information for the site. Provide FEMA/FIRM floodplain zone designation, panel number, and date within your documentation.

Is the structure, part of the structure, or insurable property located in a FEMAdesignated Special Flood Hazard Area?

✓ No

Based on the response, the review is in compliance with this section.

Yes

4. While flood insurance is not mandatory for this project, HUD strongly recommends that all insurable structures maintain flood insurance under the National Flood Insurance Program (NFIP). Will flood insurance be required as a mitigation measure or condition?

Yes

✓ No

Screen Summary

Compliance Determination

The structure or insurable property is not located in a FEMA-designated Special Flood Hazard Area. While flood insurance may not be mandatory in this instance, HUD recommends that all insurable structures maintain flood insurance under the National Flood Insurance Program (NFIP). The project is in compliance with flood insurance requirements. According to a Federal Emergency Management Agency (FEMA) floodplain map, dated February 2, 2012 (map number 26163C0280E), the subject property is located in an area of minimal flood hazard. Zone X is the area determined to be outside the 500 year flood and protected by levee from 100 year flood.

Supporting documentation

Attachment 12 - Flood map.pdf

Are formal compliance steps or mitigation required?

Yes

√ No

Air Quality

General requirements	Legislation	Regulation
The Clean Air Act is administered	Clean Air Act (42 USC 7401 et	40 CFR Parts 6, 51
by the U.S. Environmental	seq.) as amended particularly	and 93
Protection Agency (EPA), which	Section 176(c) and (d) (42 USC	
sets national standards on	7506(c) and (d))	
ambient pollutants. In addition,		
the Clean Air Act is administered		
by States, which must develop		
State Implementation Plans (SIPs)		
to regulate their state air quality.		
Projects funded by HUD must		
demonstrate that they conform		
to the appropriate SIP.		

1.	Does your project include new construction or conversion of land use facilitating the
develop	oment of public, commercial, or industrial facilities OR five or more dwelling units?

✓ Yes

No

Air Quality Attainment Status of Project's County or Air Quality Management District

2. Is your project's air quality management district or county in non-attainment or maintenance status for any criteria pollutants?

No, project's county or air quality management district is in attainment status for all criteria pollutants.

Yes, project's management district or county is in non-attainment or maintenance status for the following criteria pollutants (check all that apply):

Carbon Monoxide

Lead

Nitrogen dioxide

✓ Sulfur dioxide

✓

Ozone

Particulate Matter, <2.5 microns

Particulate Matter, <10 microns

3. What are the *de minimis* emissions levels (40 CFR 93.153) or screening levels for the non-attainment or maintenance level pollutants indicated above

Sulfur dioxide 75.00 ppb (parts per billion) Ozone 0.07 ppb (parts per million)

Provide your source used to determine levels here:

Review of the EPA de minimis emission levels table available at https://www.epa.gov/general-conformity/de-minimis-tables indicates levels for ozone in maintenance areas is 100 tons/year and sulfur dioxide is 100 tons/year.

- 4. Determine the estimated emissions levels of your project. Will your project exceed any of the de minimis or threshold emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?
 - ✓ No, the project will not exceed de minimis or threshold emissions levels or screening levels.

Enter the estimate emission levels:

Sulfur dioxide 0.00 ppb (parts per billion) Ozone 0.00 ppb (parts per million)

Based on the response, the review is in compliance with this section.

Yes, the project exceeds *de minimis* emissions levels or screening levels.

Screen Summary

Compliance Determination

The project's county or air quality management district is in maintenance/attainment for ozone and non-attainment for Sulfur dioxide. This project does not exceed de minimis emissions levels or the screening level established by the state or air quality

management district for the pollutant(s) identified above. The project is in compliance with the Clean Air Act. The proposed project will not produce significant emissions beyond de minimis levels and, therefore, meets the definition of an activity classified under air permit exemptions (R 336.1291, Rule 291). Anticipated air emissions from the project are between 1 and 2 tpy criteria pollutant and less than 0.001 tpy lead, fluoride, and mercury. The project is in compliance. A Conformity Letter prepared by Breanna Bukowski, Environmental Quality Analyst for the EGLE Air Quality Division, dated March 25, 2025, indicates the size, scope, and duration of the Bagley Townhomes Project is similar in scale to a documented project in Orange, California, and the proposed project should not exceed de minimis levels included in the federal general conformity requirements. A detailed conformity analysis was not required. Fugitive Dust Measures to control fugitive dust will be utilized to ensure that construction projects do not result in erosion and formation of dust. The Best Management Practices (BMPs) employed with comply with the City's site plan approval process and will be effective in controlling construction-related fugitive dust.

Supporting documentation

Attachment 1 B - Gen Conformity Letter Bagley Townhomes Project.pdf
Attachment 1 B - Gen Conformity Letter Bagley Townhomes Project.pdf
Attachment 1 - Attainment Status for the National Ambient Air Quality Standards.pdf
Attachment 1s - Sulfur Dioxide non-Attainment.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Coastal Zone Management Act

General requirements	Legislation	Regulation
Federal assistance to applicant	Coastal Zone Management	15 CFR Part 930
agencies for activities affecting	Act (16 USC 1451-1464),	
any coastal use or resource is	particularly section 307(c)	
granted only when such	and (d) (16 USC 1456(c) and	
activities are consistent with	(d))	
federally approved State		
Coastal Zone Management Act		
Plans.		

1. Is the project located in, or does it affect, a Coastal Zone as defined in your state Coastal Management Plan?

Yes

✓ No

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below.

Screen Summary

Compliance Determination

Review of the Coastal Zone Management website documents the Project is not located within a designated Coastal Zone Management area.

Supporting documentation

Attachment 2 a - Coastal Zone Management Map.pdf Attachment 2 a - Coastal Zone Management Map.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Contamination and Toxic Substances

General Requirements	Legislation	Regulations
It is HUD policy that all properties that are being		24 CFR
proposed for use in HUD programs be free of		58.5(i)(2)
hazardous materials, contamination, toxic		24 CFR 50.3(i)
chemicals and gases, and radioactive substances,		
where a hazard could affect the health and safety of		
the occupants or conflict with the intended		
utilization of the property.		
Reference		
https://www.onecpd.info/environmental-review/site-contamination		

1. How was site contamination evaluated?* Select all that apply.

ASTM Phase I ESA

ASTM Phase II ESA

Remediation or clean-up plan

ASTM Vapor Encroachment Screening.

None of the above

2. Were any on-site or nearby toxic, hazardous, or radioactive substances* (excluding radon) found that could affect the health and safety of project occupants or conflict with the intended use of the property? (Were any recognized environmental conditions or RECs identified in a Phase I ESA and confirmed in a Phase II ESA?)

Provide a map or other documentation of absence or presence of contamination** and explain evaluation of site contamination in the Screen Summary at the bottom of this screen.

^{*} HUD regulations at 24 CFR § 58.5(i)(2)(ii) require that the environmental review for multifamily housing with five or more dwelling units or non-residential property include the evaluation of previous uses of the site or other evidence of contamination on or near the site. For acquisition and new construction of multifamily and nonresidential properties HUD strongly advises the review include an ASTM Phase I Environmental Site Assessment (ESA) to meet real estate transaction standards of due diligence and to help ensure compliance with HUD's toxic policy at 24 CFR §58.5(i) and 24 CFR §50.3(i). Also note that some HUD programs require an ASTM Phase I ESA.

No

Explain:

✓ Yes

- * This question covers the presence of radioactive substances excluding radon. Radon is addressed in the Radon Exempt Question.
- ** Utilize EPA's Enviromapper, NEPAssist, or state/tribal databases to identify nearby dumps, junk yards, landfills, hazardous waste sites, and industrial sites, including EPA National Priorities List Sites (Superfund sites), CERCLA or state-equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation. Additional supporting documentation may include other inspections and reports.

Detroit, MI

3. Evaluate the building(s) for radon. Do all buildings meet any of the exemptions* from having to consider radon in the contamination analysis listed in CPD Notice CPD-23-103?

Yes

Explain:

✓ No

* Notes:

- Buildings with no enclosed areas having ground contact.
- Buildings containing crawlspaces, utility tunnels, or parking garages would not be exempt, however buildings built on piers would be exempt, provided that there is open air between the lowest floor of the building and the ground.
- Buildings that are not residential and will not be occupied for more than 4 hours per day.
- Buildings with existing radon mitigation systems document radon levels are below 4 pCi/L with test results dated within two years of submitting the application for HUD assistance and document the system includes an ongoing maintenance plan that includes periodic testing to ensure the system continues to meet the current EPA recommended levels. If the project does not require an application, document test results dated within two years of the date the environmental review is certified. Refer to program office guidance to ensure compliance with program requirements.
- Buildings tested within five years of the submission of application for HUD assistance: test results document indoor radon levels are below current the EPA's recommended action levels of 4.0 pCi/L. For buildings with test data older than five years, any new environmental review must include a consideration of radon using one of the methods in Section A below.
- 4. Is the proposed project new construction or substantial rehabilitation where testing will

be conducted but cannot yet occur because building construction has not been completed?

Detroit, MI

Yes

Compliance with this section is conditioned on post-construction testing being conducted, followed by mitigation, if needed. Radon test results, along with any needed mitigation plan, must be uploaded to the mitigation section within this screen.

✓ No

- 5. Was radon testing or a scientific data review conducted that provided a radon concentration level in pCi/L?
 - ✓ Yes

No

If no testing was conducted and a review of science-based data offered a lack of science-based data for the project site, then document and upload the steps taken to look for documented test results and science-based data as well as the basis for the conclusion that testing would be infeasible or impracticable.

Explain:

File Upload:

Based on the response, the review is in compliance with this section. Continue to the Screen Summary at the bottom of this screen.

Non-radon contamination was found in a previous question.

6. How was radon data collected?

All buildings involved were tested for radon

✓ A review of science-based data was conducted

Enter the Radon concentration value, in pCi/L, derived from the review of science-based data:

0.74

Provide the documentation* used to derive this value:

Per the HUD CPD-23-103 Policy for Addressing Radon, the City of Detroit has elected to follow Consideration III A ii. 3) Scientific Data Review to determine whether the project site is located in an area that has average documented radon levels at or above 4 pCi/L. The Housing and Revitalization Department (HRD) has collected radon samples throughout the City of Detroit. According to the HRD Indoor Radon Map, the City is in a geographic area with radon under the levels suggested for mitigation. Since November 2023, fifty-nine (59) tests were taken throughout the City. The average results of the tests are 0.74 pCi/L. Based on the samples taken in the City and the results averaging under 4 pCi/L, no additional testing is required.

File Upload:

HRD Indoor Radon Map 04-18-24.pdf

Based on the response, the review is in compliance with this section. Continue to the Screen Summary at the bottom of this screen.

Radon concentration value is greater than or equal to 4.0 pCi/L and/or non-radon contamination was found in a previous question. Continue to Mitigation.

* For example, if you conducted radon testing then provide a testing report (such as an ANSI/AARST report or DIY test) if applicable (note: DIY tests are not eligible for use in multifamily buildings), or documentation of the test results. If you conducted a scientific data review, then describe and cite the maps and data used and include copies of all supporting documentation. Ensure that the best available data is utilized, if conducting a scientific data review.

8. Mitigation

Document the mitigation needed according to the requirements of the appropriate federal, state, tribal, or local oversight agency. If the adverse environmental impacts cannot be mitigated, then HUD assistance may not be used for the project at this site.

For instances where radon mitigation is required (i.e. where test results demonstrated radon levels at 4.0 pCi/L and above), then you must include a radon mitigation plan*.

Can all adverse environmental impacts be mitigated?

No, all adverse environmental impacts cannot feasibly be mitigated. Project cannot proceed at this location.

✓ Yes, all adverse environmental impacts can be eliminated through mitigation, and/or consideration of radon and radon mitigation, if needed, will occur following construction. Provide all mitigation requirements** and documents in the Screen Summary at the bottom of this screen.

- * Refer to CPD Notice <u>CPD-23-103</u> for additional information on radon mitigation plans.
- ** Mitigation requirements include all clean-up requirements required by applicable federal, state, tribal, or local law. Additionally, please upload, as applicable, the long-term operations and maintenance plan, Remedial Action Work Plan, and other equivalent documents.
- 9. Describe how compliance was achieved. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls*, or use of institutional controls**.

On December 19, 2024, EGLE approved the submitted ResAP. Since that time, we have updated the scope of work for the site to include the removal of a minimum of four feet of soil across the entire Project site. Based on recent conversations with EGLE, this scope eliminates the requirement for incremental The updated proposed response activities for Pacel C are based on the EGLE-approved Response Activity Plan for Parcel D adjacent the Project site. This plan was approved March 17, 2025. At least four feet of soil will be removed from the entire subject property. Excavation will occur to the property boundaries in all directions. The soil will be disposed off-site at a licensed Type 2 landfill. Copies of load tickets, bills of lading, and/or manifests for each shipment of soil transported off the subject property for disposal will be retained by the owner. Prior to the removal of the soil from the subject property will be surveyed to determine the current grade elevations. Following completion of excavation activities, the subject property will be re-surveyed to confirm a minimum of four feet of soils have been removed. Clean soil will be imported to the subject property to return the subject property to near the current grade. Any soils imported to the subject property as part of the development of the direct contact barrier will be sampled periodically to ensure they are not contaminated prior to being utilized for the barrier. At a minimum the imported

soils will be sampled and analyzed VOCs by US EPA Method 8260, PNAs by US EPA Method 8270 and the metals arsenic, lead, and selenium by USEPA Methods 6020 and 7471. Additional analysis may be conducted as appropriate. Samples will be collected prior to the placement of the soil on to the property and analyzed at a rate of one sample per every 500 cubic yards of imported soil. Following completion of site grading and hardscape installation, the subject property will be surveyed to confirm that a minimum of four feet of clean fill are present above any potential remaining fill materials. Current future use plans for the subject property include the redevelopment with four new multifamily residential buildings. Following completion of the excavations for each building foundation on the subject property, VSR samples will be collected from beneath the building foundations. The samples will be collected in accordance with the S3TM guidance document. The VSR samples will be analyzed for VOCs, PNAs, and the Michigan 10 metals.

If a remediation plan or clean-up program was necessary, which standard does it follow?

Complete removal

Risk-based corrective action (RBCA)

Other

- * Engineering controls are any physical mechanism used to contain or stabilize contamination or ensure the effectiveness of a remedial action. Engineering controls may include, caps, covers, dikes, trenches, leachate collection systems, radon mitigation systems, signs, fences, physical access controls, ground water monitoring systems and ground water containment systems including, slurry walls and ground water pumping systems.
- ** Institutional controls are mechanisms used to limit human activities at or near a contaminated site, or to ensure the effectiveness of the remedial action over time, when contaminants remain at a site at levels above the applicable remediation standard which would allow for unrestricted use of the property. Institutional controls may include structure, land, and natural resource use restrictions, well restriction areas, classification exception areas, deed notices, and declarations of environmental restrictions.

Screen Summary

Compliance Determination

Adverse environmental impacts can be mitigated. With mitigation, identified in the mitigation section of this review, the project will be in compliance with contamination and toxic substances requirements. Lists and summaries of previous reports are

provided in attachments. CONTAMINATION: Historical activities conducted at the property and deposition of fill material has resulted in soil impact at the property. Metals, VOCs, and PAHs have been detected in soil. On December 19, 2024, EGLE approved the submitted Evaluation Plan and Response Activity Plan for the Project, which included plan for incremental sampling. Since that time, we have updated the scope of work for the site to include the removal of a minimum of four feet of soil across the entire Project site to align with corrective action to be conducted at adjoining parcels. This scope eliminates the requirement for incremental sampling. The updated proposed response activities for Parcel C are based on the EGLEapproved ResAP for Parcel D adjacent the Project site. This plan was approved March 17, 2025. Excavation will occur to the property boundaries in all directions. The soil will be disposed off-site at a licensed Type 2 landfill. Prior to the removal of the soil from the subject property will be surveyed to determine the current grade elevations. Following completion of excavation activities, the subject property will be re-surveyed to confirm a minimum of four feet of soils have been removed. Clean soil will be imported to the subject property to return the subject property to near the current grade. Any soils imported to the subject property as part of the development of the direct contact barrier will be sampled periodically to ensure they are not contaminated prior to being utilized for the barrier. At a minimum, the imported soils will be sampled and analyzed VOCs, PNAs, and the metals arsenic, lead, and selenium. Additional analysis may be conducted as appropriate. Samples will be collected prior to the placement of the soil on to the property and analyzed at a rate of one sample per every 500 cubic yards of imported soil. Following completion of site grading and hardscape installation, the subject property will be surveyed to confirm that a minimum of four feet of clean fill are present above any potential remaining fill materials. Following completion of the excavations for each building foundation on the subject property, VSR samples will be collected from beneath the building foundations. The samples will be collected in accordance with the S3TM guidance document. The VSR samples will be analyzed for VOCs, PNAs, and the Michigan 10 metals. In addition, all excavation and disposal will be conducted in compliance with the applicable local, State, and Federal regulations. ASBESTOS: The 2023 report indicates a survey was conducted for all 12 buildings, which includes Parcel C. Basement wall texture in each building and 40 sets of fire doors and frame sets were confirmed or presumed asbestos containing. According to the classification guidelines, the wall texture was classified as a Category II non-friable ACM. No renovations have been conducted since April 2023. As such, the 2023 asbestos survey is considered valid. Any asbestos will be abated in conformance with federal, state, and local guidelines. HAZARDOUS MATERIALS/PRE DEMOLITION SURVEY: Prior to demolition of the buildings, a pre-demolition survey will be completed. Lead-based paint is not anticipated to be present. Universal Waste and other identified potential hazardous that are present at the subject property will be handled/disposed of in accordance with applicable requirements. During an asbestos containing materials

inspection conducted in 2023, basement wall texture (white) was identified as ACBM. Any asbestos will be abated in conformance with federal, state, and local guidelines.

Supporting documentation

CKG I and III CLA AMC Memo.pdf

CKG ACM Abatement Review.pdf

CKG ACM Report 4-26-23.pdf

List of Reports and Documents for the Property supplemental.pdf

Attachment 3a CKG Documentation of Response Activities 3-20-25(1).pdf

attachment 3 CKG ACM Report 4-26-23.pdf

Attachment 3b Hazardous Materials Survey.pdf

Attachment 3b Hazardous Materials Survey.pdf

Attachment 3 b summary of previous reports and surveys.pdf

ResAP - Approval Letter Bagley Townhomes.pdf

2024-0219 Parcel C Response Activity Plan - FINAL.pdf

(A5) CKG Phase II ESA 10-4-23.pdf

(A3) CKG Phase I (ASTI) 9-30-22.pdf

(A2) CKG Phase II 7-7-03.pdf

(A1) CKG Phase I Environmental 6-12-03 (Protions).pdf

Are formal compliance steps or mitigation required?

✓ Yes

No

Endangered Species

General requirements	ESA Legislation	Regulations
Section 7 of the Endangered Species Act (ESA)	The Endangered	50 CFR Part
mandates that federal agencies ensure that	Species Act of 1973	402
actions that they authorize, fund, or carry out	(16 U.S.C. 1531 et	
shall not jeopardize the continued existence of	seq.); particularly	
federally listed plants and animals or result in	section 7 (16 USC	
the adverse modification or destruction of	1536).	
designated critical habitat. Where their actions		
may affect resources protected by the ESA,		
agencies must consult with the Fish and Wildlife		
Service and/or the National Marine Fisheries		
Service ("FWS" and "NMFS" or "the Services").		

1. Does the project involve any activities that have the potential to affect specifies or habitats?

No, the project will have No Effect due to the nature of the activities involved in the project.

No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office

Yes, the activities involved in the project have the potential to affect species and/or habitats.

2. Are federally listed species or designated critical habitats present in the action area?

✓ No, the project will have No Effect due to the absence of federally listed species and designated critical habitat

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below. Documentation may include letters from the Services, species lists from the Services' websites, surveys or other documents and analysis showing that there are no species in the action area.

Yes, there are federally listed species or designated critical habitats present in the action area.

Screen Summary

Compliance Determination

The U.S. Fish and Wildlife Service Information for Planning and Consultation (iPac) tool was referenced. A list of protected species obtained identified the Indiana bat (Endangered), the Rufa Red Knot (Threatened); The Eastern Massasauga (Threatened); The Monarch Butterly (Proposed Threatened); and the Eastern Prairie Fringed Orchid (Threatened). The Indiana bat hibernate in caves, mines, or similar structures during the winter. During the summer, they prefer forested/wooded habitats where the roost forage and travel to some adjacent and interspersed nonforested habitats such as emergent wetlands and adjacent edges of agricultural fields. Small numbers of rufa red knots sometimes use manmade freshwater habitats along inland migration routes. Rufa red knots generally nest in dry, slightly elevated tundra locations, often on windswept slopes with little vegetation. The Eastern Massasauga maybe found in variety of wetland habitats, particularly prairie fens, and lowland coniferous forested, such as cedar swamps. Monarch butterflies live mainly in prairies, meadows, grasslands and along roadsides, across most of North America. The Eastern Prairie Fringed Orchid prefers wet habitats in full sun, like prairies and sedge meadows. No critical habitats were identified at the Site location. No wetland areas are present on the subject property. The subject property is located in an urban area which has been developed since at least 1884. Based on this information, the identified endangered species are not likely present on the subject property. Furthermore, the species identified above have never been observed at the project location, and no suitable habitats are located at the property.

Supporting documentation

Attachment 9 - IPaC Explore Location resources.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Explosive and Flammable Hazards

Bagley-Townhomes-and-

Flats-on-10th

General requirements	Legislation	Regulation
HUD-assisted projects must meet	N/A	24 CFR Part 51
Acceptable Separation Distance (ASD)		Subpart C
requirements to protect them from		
explosive and flammable hazards.		

Is the proposed HUD-assisted project itself the development of a hazardous facility (a 1. facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?

✓	No
	Ves

2. Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion?

No

✓ Yes

- Within 1 mile of the project site, are there any current or planned stationary aboveground storage containers that are covered by 24 CFR 51C? Containers that are NOT covered under the regulation include:
- Containers 100 gallons or less in capacity, containing common liquid industrial fuels OR
- Containers of liquified petroleum gas (LPG) or propane with a water volume capacity of 1,000 gallons or less that meet the requirements of the 2017 or later version of National Fire Protection Association (NFPA) Code 58.

If all containers within the search area fit the above criteria, answer "No." For any other type of aboveground storage container within the search area that holds one of the flammable or explosive materials listed in Appendix I of 24 CFR part 51 subpart C, answer "Yes."

No

✓ Yes

4. Based on the analysis, is the proposed HUD-assisted project located at or beyond the required separation distance from all covered tanks?

✓ Yes

Based on the response, the review is in compliance with this section.

No

Screen Summary

Compliance Determination

In accordance with HUD's Guidebook entitled "Siting of HUD-Assisted Projects Near Hazardous Facilities" (hereafter "Guidebook"), SES searched a 1-mile radius around the Project for above ground storage tanks (ASTs) containing flammable materials based on review of a 2022 regulatory database report. Review of the regulatory database documented 12 active AST sites within a one-mile radius of the subject property. Based on tank distances and the presence of numerous buildings between the properties and the subject property, the ASTs are not anticipated to have any impact on the proposed developments associated with the project.

Supporting documentation

Attachment 10 - blast map.pdf

<u>Attachment 10-11 Acceptable Separation Distance (ASD) Electronic Assessment Tool-HUD Exchange.pdf</u>

Attachment 10-10 Acceptable Separation Distance (ASD) Electronic Assessment Tool - HUD Exchange.pdf

Attachment 10-9 Acceptable Separation Distance (ASD) Electronic Assessment Tool - HUD Exchange.pdf

Attachment 10-8 Acceptable Separation Distance (ASD) Electronic Assessment Tool - HUD Exchange.pdf

Attachment 10-7 Acceptable Separation Distance (ASD) Electronic Assessment Tool - HUD Exchange.pdf

<u>Attachment 10-6 Acceptable Separation Distance (ASD) Electronic Assessment Tool-</u> HUD Exchange.pdf

Attachment 10-4 Acceptable Separation Distance (ASD) Electronic Assessment Tool-HUD Exchange.pdf

Attachment 10-3Acceptable Separation Distance (ASD) Electronic Assessment Tool - HUD Exchange.pdf

Attachment 10-2 Acceptable Separation Distance (ASD) Electronic Assessment Tool -**HUD** Exchange.pdf Attachment 10 - 1Acceptable Separation Distance (ASD) Electronic Assessment Tool -HUD Exchange.pdf

Are formal compliance steps or mitigation required?

✓ No

Farmlands Protection

General requirements	Legislation	Regulation
The Farmland Protection	Farmland Protection Policy	7 CFR Part 658
Policy Act (FPPA) discourages	Act of 1981 (7 U.S.C. 4201	
federal activities that would	et seq.)	
convert farmland to		
nonagricultural purposes.		

1. Does your project include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use?

Yes



If your project includes new construction, acquisition of undeveloped land or conversion, explain how you determined that agricultural land would not be converted:

The property currently consists of developed land.

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below.

Screen Summary

Compliance Determination

This project does not include any activities that could potentially convert agricultural land to a non-agricultural use. The project is in compliance with the Farmland Protection Policy Act.

Supporting documentation

Attachment 11 - Farmland Classification Attachment 11 - Farmland.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No.

Floodplain Management

General Requirements	Legislation	Regulation
Executive Order 11988,	Executive Order 11988	24 CFR 55
Floodplain Management,	* Executive Order 13690	
requires Federal activities to	* 42 USC 4001-4128	
avoid impacts to floodplains	* 42 USC 5154a	
and to avoid direct and	* only applies to screen 2047	
indirect support of floodplain	and not 2046	
development to the extent		
practicable.		

1. Does this project meet an exemption at 24 CFR 55.12 from compliance with HUD's floodplain management regulations in Part 55?

Yes

- (a) HUD-assisted activities described in 24 CFR 58.34 and 58.35(b).
- (b) HUD-assisted activities described in 24 CFR 50.19, except as otherwise indicated in § 50.19.
- (c) The approval of financial assistance for restoring and preserving the natural and beneficial functions and values of floodplains and wetlands, including through acquisition of such floodplain and wetland property, where a permanent covenant or comparable restriction is place on the property's continued use for flood control, wetland projection, open space, or park land, but only if:
- (1) The property is cleared of all existing buildings and walled structures; and
- (2) The property is cleared of related improvements except those which:
- (i) Are directly related to flood control, wetland protection, open space, or park land (including playgrounds and recreation areas);
- (ii) Do not modify existing wetland areas or involve fill, paving, or other ground disturbance beyond minimal trails or paths; and
- (iii) Are designed to be compatible with the beneficial floodplain or wetland function of the property.
- (d) An action involving a repossession, receivership, foreclosure, or similar acquisition of property to protect or enforce HUD's financial interests under previously approved loans, grants, mortgage insurance,

or other HUD assistance.

- (e) Policy-level actions described at 24 CFR 50.16 that do not involve site-based decisions.
- (f) A minor amendment to a previously approved action with no additional adverse impact on or from a floodplain or wetland.
- (g) HUD's or the responsible entity's approval of a project site, an incidental portion of which is situated in the FFRMS floodplain (not including the floodway, LiMWA, or coastal high hazard area) but only if: (1) The proposed project site does not include any existing or proposed buildings or improvements that modify or occupy the FFRMS floodplain except de minimis improvements such as recreation areas and trails; and (2) the proposed project will not result in any new construction in or modifications of a wetland.
- (h) Issuance or use of Housing Vouchers, or other forms of rental subsidy where HUD, the awarding community, or the public housing agency that administers the contract awards rental subsidies that are not project-based (i.e., do not involve site-specific subsidies).
- (i) Special projects directed to the removal of material and architectural barriers that restrict the mobility of and accessibility to elderly and persons with disabilities.

Describe:

✓ No

2. Does the project include a Critical Action? Examples of Critical Actions include projects involving hospitals, fire and police stations, nursing homes, hazardous chemical storage, storage of valuable records, and utility plants.

Yes

Describe:

✓ No.

3. Determine the extent of the FFRMS floodplain and provide mapping documentation in support of that determination

The extent of the FFRMS floodplain can be determined using a Climate Informed Science Approach (CISA), 0.2 percent flood approach (0.2 PFA), or freeboard value approach (FVA). For projects in areas without available CISA data or without FEMA Flood Insurance Rate Maps (FIRMs), Flood Insurance Studies (FISs) or Advisory Base Flood Elevations (ABFEs), use the best available information¹ to determine flood elevation. Include documentation and an explanation of why this is the best available information² for the site. Note that newly constructed and substantially improved³ structures must be elevated to the FFRMS floodplain regardless of the approach chosen to determine the floodplain.

Select one of the following three options:

CISA for non-critical actions. If using a local tool, data, or resources, ensure that the FFRMS elevation is higher than would have been determined using the 0.2 PFA or the FVA.

✓ 0.2-PFA. Where FEMA has defined the 0.2-percent-annual-chance floodplain, the FFRMS floodplain is the area that FEMA has designated as within the 0.2-percent-annual-chance floodplain.

FVA. If neither CISA nor 0.2-PFA is available, for non-critical actions, the FFRMS floodplain is the area that results from adding two feet to the base flood elevation as established by the effective FIRM or FIS or — if available — a FEMA-provided preliminary or pending FIRM or FIS or advisory base flood elevations, whether regulatory or informational in nature. However, an interim or preliminary FEMA map cannot be used if it is lower than the current FIRM or FIS.

¹ Sources which merit investigation include the files and studies of other federal agencies, such as the U. S. Army Corps of Engineers, the Tennessee Valley Authority, the Soil Conservation Service and the U. S. Geological Survey. These agencies have prepared flood hazard studies for several thousand localities and, through their technical assistance programs, hydrologic studies, soil surveys, and other investigations have collected or developed other floodplain information for numerous sites and areas. States and communities are also sources of information on past flood 'experiences within their boundaries and are particularly knowledgeable about areas subject to high-risk flood hazards such as alluvial fans, high velocity flows, mudflows and mudslides, ice jams, subsidence and liquefaction.

² If you are using best available information, select the FVA option below and provide supporting documentation in the screen summary. Contact your <u>local environmental officer</u> with additional compliance questions.

³ Substantial improvement means any repair or improvement of a structure which costs at least 50 percent of the market value of the structure before repair or improvement or results in an increase of more than 20 percent of the number of dwelling units. The full definition can be found at 24 CFR 55.2(b)(12).

5. Does your project occur in the FFRMS floodplain?

Yes

✓ No

Screen Summary

Compliance Determination

This project does not occur in the FFRMS floodplain. The project is in compliance with Executive Orders 11988 and 13690.

Supporting documentation

Attachment 12 - Flood map(1).pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Historic Preservation

General requirements	Legislation	Regulation
Regulations under	Section 106 of the	36 CFR 800 "Protection of Historic
Section 106 of the	National Historic	Properties"
National Historic	Preservation Act	https://www.govinfo.gov/content/pkg/CF
Preservation Act	(16 U.S.C. 470f)	R-2012-title36-vol3/pdf/CFR-2012-title36-
(NHPA) require a		vol3-part800.pdf
consultative process		
to identify historic		
properties, assess		
project impacts on		
them, and avoid,		
minimize, or mitigate		
adverse effects		

Threshold Is Section 106 review required for your project?

No, because the project consists solely of activities listed as exempt in a Programmatic Agreement (PA). (See the PA Database to find applicable PAs.) No, because the project consists solely of activities included in a No Potential to Cause Effects memo or other determination [36 CFR 800.3(a)(1)].

✓ Yes, because the project includes activities with potential to cause effects (direct or indirect).

Step 1 – Initiate Consultation Select all consulting parties below (check all that apply):

- ✓ State Historic Preservation Offer (SHPO) Completed
- ✓ Indian Tribes, including Tribal Historic Preservation Officers (THPOs) or Native Hawaiian Organizations (NHOs)
 - ✓ Bay Mills Indian Community Completed
 ✓ Forest County Potawatomi Community Completed of Wisconsin

✓ Grand Traverse Band of Ottawa &	Completed
Chippewa Indians	
✓ Hannahville Indian Community	Completed
✓ Ketegitigaaning Ojibwe Nation	Completed
✓ Keweenaw Bay Indian Community	Completed
✓ Lac du Flambeau Band of Lake	Completed
✓ Little River Band of Ottawa Indians	Completed
✓ Little Traverse Bay Bands of Odawa	Completed
Indians	
✓ Match-E-Be-Nash-She-Wish	Completed
✓ Menominee Indian Tribe of Wisconsin	Completed
✓ Miami Tribe of Oklahoma	Completed
✓ Michigan Anishinaabek Cultural	Completed
✓ Nottawaseppi Huron Band	Completed
✓ Pokagon Band of Potawatomi Indians	Completed
✓ Saginaw Chippewa Indian Tribe of	Completed
Michigan	
✓ Sault Ste. Marie Tribe of Chippewa	Completed
✓ Seneca Cayuga Nation	Completed

Other Consulting Parties

Describe the process of selecting consulting parties and initiating consultation here:

The City of Detroit Housing & Revitalization Department has reviewed this project under a Programmatic Agreement (PA) between the Michigan State Historic Preservation Office (SHPO) and the City of Detroit, Michigan dated December 21, 2022. Consulting parties were identified in the development of the PA. The City has conducted consultation with relevant stakeholders and tribes identified in the TDAT system.

Document and upload all correspondence, notices and notes (including comments and objections received below).

Was the Section 106 Lender Delegation Memo used for Section 106 consultation?

Yes

No

Step 2 – Identify and Evaluate Historic Properties

1. Define the Area of Potential Effect (APE), either by entering the address(es) or

uploading a map depicting the APE below:

The direct APE consists solely of the site located at 1511-1795 Bagley Street, Parcel ID: 08000246-346, Detroit, Michigan 48216

In the chart below, list historic properties identified and evaluated in the APE. Every historic property that may be affected by the project should be included in the chart.

Upload the documentation (survey forms, Register nominations, concurrence(s) and/or objection(s), notes, and photos) that justify your National Register Status determination below.

Address / Location /	National Register	SHPO Concurrence	Sensitive
District	Status		Information
Corktown Local Historic District	Listed	Yes	✓ Not Sensitive

Additional Notes:

Upon site plan review, the City of Detroit Preservation Specialist has determined that the new construction will not adversely affect the Corktown Historic District. The proposed new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old. The new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

2. Was a survey of historic buildings and/or archeological sites done as part of the project?

✓ Yes

Document and upload surveys and report(s) below. For Archeological surveys, refer to HP Fact Sheet #6, Guidance on Archeological Investigations in HUD Projects.

Additional Notes:

A historic resource survey was conducted to identify above ground historic resources and phase I shovel testing was conducted to assess the potential impact on buried historic resources. See the Archaeology Summary Memo attachment.

No

Step 3 –Assess Effects of the Project on Historic Properties

Only properties that are listed on or eligible for the National Register of Historic Places receive further consideration under Section 106. Assess the effect(s) of the project by applying the Criteria of Adverse Effect. (36 CFR 800.5)] Consider direct and indirect effects as applicable as per guidance on direct and indirect effects.

Choose one of the findings below - No Historic Properties Affected, No Adverse Effect, or Adverse Effect; and seek concurrence from consulting parties.

No Historic Properties Affected

✓ No Adverse Effect

Based on the response, the review is in compliance with this section. **Document reason for finding:**

During government-to-government tribal consultation (54 U.S.C. 302706 (b)), the Forest County Potawatomi Community Tribal Historic Preservation Officer made a request for archaeological monitoring of the site; due to the prevalence of Potawatomi villages and fisheries along the Detroit River and the depth of excavation proposed. They raised concerns that this undertaking could disturb previously undisturbed sub-surface resources. The City of Detroit and SHPO have recommended monitoring across the Clement Kern Development site (Bagley Townhomes & 10th Street Flats, West of 10th, and Trumbull Developments) in order to address the concerns of the Forest County Potawatomi and avoid adverse effects to potential precontact and historic period archaeological resources. An archaeology monitoring plan was submitted for consideration and approved through consultation with SHPO and Tribes.

Does the No Adverse Effect finding contain conditions?

✓ Yes (check all that apply)

Avoidance

Modification of project

✓ Other

Describe conditions here:

During government-to-government tribal consultation (54 U.S.C. 302706 (b)), the Forest County Potawatomi Community Tribal Historic Preservation Officer made a request for archaeological monitoring of the site; due to the prevalence of Potawatomi villages and fisheries along the Detroit River and the depth of excavation proposed. They raised concerns that this undertaking could disturb previously undisturbed sub-surface resources. The City of Detroit and SHPO have recommended monitoring across the Clement Kern Development site (Bagley Townhomes & 10th Street Flats, West of 10th, and Trumbull Developments) in order to address the concerns of the Forest County Potawatomi and avoid adverse effects to potential precontact and historic period archaeological resources. An archaeology monitoring plan was submitted for consideration and approved through consultation with SHPO and Tribes.

No

Adverse Effect

Screen Summary

Compliance Determination

Based on Section 106 consultation the project will have No Adverse Effect on historic properties. Conditions: Other. Upon satisfactory implementation of the conditions, which should be monitored, the project is in compliance with Section 106. This project has been given a Conditional No Adverse Effect determination (Federal Regulations 36 CFR Part 800.5(b)) on properties that are listed or eligible for listing in the National Register of Historic Places, as long at the following conditions are met: * The work is conducted in accordance with the specifications submitted to the Preservation Specialist on 7/18/2024, and any changes to the scope of work for the

project shall be submitted to the Preservation Specialist for review and approval prior to the start of work. * The archaeological monitoring plan, dated 9/16/24, is followed.

Supporting documentation

Tribes Consulted - Full Names.pdf

Attachment 13 - CKG Sec 106 Application 71023 redacted(1).pdf

Attachment 14 - Map distance from Parcel C to Michigan Avenue.pdf

CKG Bagley TH Flats Parcel C CNAE Section 106 Letter 3142025.pdf

SECTION 106 REVIEW CERTIFICATE OF COMPLETION March 2024.pdf

<u>Forest County Potawatomi RE</u> <u>City of Detroit Tribal Consultation - Clement Kern</u> Gardens.pdf

City of Detroit Clement Kern Gardens MBPI Response 010424.pdf

24-986 CNAE1024.pdf

ArchSummaryMemo BagleyTownhomesFlats10th1.pdf

Attachment 13-CKG SHPO Response 7-21-23.pdf

Attachment 13- CKG SHPO Response Letter (ER96-1_23_1811-1795Bagley) 12-4-

23.pdf

Attachment 13 - National Register of Historic Places map.pdf

Attachment 13- Historic District for Getroit for north and east adjoing properties.pdf

Attachment 13 - City of Detroit Historic District map.pdf

Are formal compliance steps or mitigation required?

✓ Yes

No

Noise Abatement and Control

General requirements	Legislation	Regulation
HUD's noise regulations protect	Noise Control Act of 1972	Title 24 CFR 51
residential properties from		Subpart B
excessive noise exposure. HUD	General Services Administration	
encourages mitigation as	Federal Management Circular	
appropriate.	75-2: "Compatible Land Uses at	
	Federal Airfields"	

- 1. What activities does your project involve? Check all that apply:
- ✓ New construction for residential use

NOTE: HUD assistance to new construction projects is generally prohibited if they are located in an Unacceptable zone, and HUD discourages assistance for new construction projects in Normally Unacceptable zones. See 24 CFR 51.101(a)(3) for further details.

Rehabilitation of an existing residential property

A research demonstration project which does not result in new construction or reconstruction

An interstate land sales registration

Any timely emergency assistance under disaster assistance provision or appropriations which are provided to save lives, protect property, protect public health and safety, remove debris and wreckage, or assistance that has the effect of restoring facilities substantially as they existed prior to the disaster None of the above

4. Complete the Preliminary Screening to identify potential noise generators in the vicinity (1000' from a major road, 3000' from a railroad, or 15 miles from an airport).

Indicate the findings of the Preliminary Screening below:

There are no noise generators found within the threshold distances above.

- ✓ Noise generators were found within the threshold distances.
- 5. Complete the Preliminary Screening to identify potential noise generators in the
- ✓ Acceptable: (65 decibels or less; the ceiling may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

Indicate noise level here: 58

Based on the response, the review is in compliance with this section. Document and upload noise analysis, including noise level and data used to complete the analysis below.

Normally Unacceptable: (Above 65 decibels but not exceeding 75 decibels; the floor may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

Unacceptable: (Above 75 decibels)

HUD strongly encourages conversion of noise-exposed sites to land uses compatible with high noise levels.

Check here to affirm that you have considered converting this property to a non-residential use compatible with high noise levels.

Indicate noise level here: 58

Document and upload noise analysis, including noise level and data used to complete the analysis below.

Screen Summary

Compliance Determination

A Noise Assessment was conducted. The noise level was acceptable: 58.0 db. See noise analysis. The project is in compliance with HUD's Noise regulation. Calculations were entered into the HUD Exchange Day /Night Noice Level Calculator, available at https://www.hudexchange.info/environmental-review/dnl-calculator/ Review of aerial photography and topographic maps conducted to determine the

presence of railroads within 3,000 feet of proposed development. Two railroads are located within 3,000 feet of the proposed development. The railroad are located approximately 1,640 feet to the southwest and 2,600 feet to the south. A Federal Railroad Administration Office of Safety Analysis Crossing Inventory sheet was reviewed for these railroads. Review of five railroad crossing inventory documents for Bagley Street and Rosa Parks Boulevard were reviewed for the Penn Central Railroad located to the southwest. No rail traffic operations were documented on each of the sheets for the railroad line to the southwest. Review of crossing inventory sheets for the rail line to the south documented the nearest crossing as Ambassador Bridge, and 20 rail cars were documented. The DNL calculator was used to assess noise from railroad operations. The railroad DNL is 54 dB, which is below HUD's Acceptable (<65 dB) range. The Project is located within 15 miles of three civil airports: Coleman A. Young Airport is located 6.12 miles to the northeast, Windsor Airport located approximately 6.44 miles to the southeast, and Detroit Metropolitan is located approximately 15 miles to the southwest. An Airport Noise Worksheet was used to calculate noise levels at the airports; and given an evaluation of aviation operations and per HUD guidelines (less than 9,000 air carriers per day, less than 18,000 air taxis per day, less than 18,000 military crafts per day, and less than 72,000 total operations per day), it can be assumed that the noise attributed to the airplanes will not extend beyond the boundaries of the airports. An Airport Master Record was obtained through the U.S. Department of Transportation Federal Aviation Administration. The annual number of operations at both facilities does not exceed thresholds provided in the HUD Airport Noise Worksheet. Additionally, SES reviewed a 2011 Airport Noise Exposure Contours map, which documents noise levels not exceeding 55 dBs extend off the airport property to the east but more than 5 feet from the subject property. The Michigan Department of Transportation Traffic County Database System (TCDS) was reviewed to determine the presence of busy roadways within 1,000 feet of the subject property. The HUD (DNL) Calculator was utilized to obtain a DNL for the potential roadway noise sources. Using this data, SES performed calculations from the Project boundary to the potential noise source. Michigan Avenue is located 714 feet to the north, and data from 2015 documents traffic counts as exceeding 10,000. The calculation was completed for a projection for 2025, assuming a 1% traffic increase per year. SES used the "Major Arterial - Urbanized Area" values to determine the noise calculation, which assumed 92% automobiles, 4% medium trucks, and 4% heavy trucks. The DNL from the roadway source (Michigan Avenue) to the property boundary (714 feet) was calculated. The roadway DNL is 55 dB, which is below HUD's Acceptable (<65 dB) range. As a precautionary measure, a 1% traffic increase was used to estimate traffic volumes through 2034. The DNL is 58 dB, which is below HUD's Acceptable (<65 dB) range. The combined DNL for each noise source (based on the 2015 to 2025 traffic projections as well as the 2015 to 2034 projections) is 58 dB which is below HUD's Acceptable (<65 dB) range. Based on the calculated DNL, noise mitigation is not required.

Supporting documentation

Attachment 14 - Noise Documentation for airports revised(1).pdf

Attachment 14 - Map distance from Parcel C to Michigan Avenue and RR.pdf

Noise Documentation for roadway and railroads.pdf

Attachment 14 - Roadway Noise projections revised.pdf

Attachment 14- Noise Contours for Detroit Metro.pdf

Attachment 14 -Day Night Noise Level (DNL) Calculator - HUD Exchange Road and

Rail to 2025.pdf

Attachment 14- Airport Noise Worksheet Windsor final.pdf

Attachment 14- Airport Noise Worksheet Detroit Metro.pdf

Attachment 14- Airport 5010 Detroit metro.pdf

Attachment 14 - Railroad noise SW(3).pdf

Attachment 14 - Railroad noise SW thrid.pdf

Attachment 14 - Railroad noise SW second option.pdf

Attachment 14 - Railroad noise SW fourth to west.pdf

Attachment 14 - Railroad noise Bagley Street intersection.pdf

Attachment 14 - Railroad noise Ambassador Bridge.pdf

Attachment 14 - airport 5010 windsor.pdf

Are formal compliance steps or mitigation required?

Yes

√ No

Sole Source Aquifers

General requirements	Legislation	Regulation
The Safe Drinking Water Act of 1974	Safe Drinking Water	40 CFR Part 149
protects drinking water systems	Act of 1974 (42 U.S.C.	
which are the sole or principal	201, 300f et seq., and	
drinking water source for an area	21 U.S.C. 349)	
and which, if contaminated, would		
create a significant hazard to public		
health.		

1. Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?

Yes

✓ No

2. Is the project located on a sole source aquifer (SSA)?

A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

✓ No

Based on the response, the review is in compliance with this section. Document and upload documentation used to make your determination, such as a map of your project (or jurisdiction, if appropriate) in relation to the nearest SSA and its source area, below.

Yes

Screen Summary

Compliance Determination

The project is not located on a sole source aquifer area. The project is in compliance with Sole Source Aquifer requirements.

Supporting documentation

Attachment 15 - Sole Source Aquifer Map.pdf

Are formal compliance steps or mitigation required?

Yes

Flats-on-10th

✓ No

Wetlands Protection

General requirements	Legislation	Regulation
Executive Order 11990 discourages direct or	Executive Order	24 CFR 55.20 can be
indirect support of new construction impacting	11990	used for general
wetlands wherever there is a practicable		guidance regarding
alternative. The Fish and Wildlife Service's		the 8 Step Process.
National Wetlands Inventory can be used as a		
primary screening tool, but observed or known		
wetlands not indicated on NWI maps must also		
be processed Off-site impacts that result in		
draining, impounding, or destroying wetlands		
must also be processed.		

1. Does this project involve new construction as defined in Executive Order 11990, expansion of a building's footprint, or ground disturbance? The term "new construction" shall include draining, dredging, channelizing, filling, diking, impounding, and related activities and any structures or facilities begun or authorized after the effective date of the Order

No

- ✓ Yes
- 2. Will the new construction or other ground disturbance impact an on- or off-site wetland? The term "wetlands" means those areas that are inundated by surface or ground water with a frequency sufficient to support, and under normal circumstances does or would support, a prevalence of vegetative or aquatic life that requires saturated or seasonally saturated soil conditions for growth and reproduction. Wetlands generally include swamps, marshes, bogs, and similar areas such as sloughs, potholes, wet meadows, river overflows, mud flats, and natural ponds.

"Wetlands under E.O. 11990 include isolated and non-jurisdictional wetlands."

✓ No, a wetland will not be impacted in terms of E.O. 11990's definition of new construction.

Based on the response, the review is in compliance with this section. Document and upload a map or any other relevant documentation below which explains your determination

Yes, there is a wetland that be impacted in terms of E.O. 11990's definition of new construction.

Screen Summary

Compliance Determination

No wetlands on or near the site. Therefore, the project will not impact any wetlands and is in compliance with EO 11990

Supporting documentation

Attachment 16 - Wetlands Map.pdf

Are formal compliance steps or mitigation required?

Yes

√ No

Wild and Scenic Rivers Act

General requirements	Legislation	Regulation
The Wild and Scenic Rivers Act	The Wild and Scenic Rivers	36 CFR Part 297
provides federal protection for	Act (16 U.S.C. 1271-1287),	
certain free-flowing, wild, scenic	particularly section 7(b) and	
and recreational rivers	(c) (16 U.S.C. 1278(b) and (c))	
designated as components or		
potential components of the		
National Wild and Scenic Rivers		
System (NWSRS) from the effects		
of construction or development.		

1. Is your project within proximity of a NWSRS river?

✓ No

Yes, the project is in proximity of a Designated Wild and Scenic River or Study Wild and Scenic River.

Yes, the project is in proximity of a Nationwide Rivers Inventory (NRI) River.

Screen Summary

Compliance Determination

This project is not within proximity of a NWSRS river. The project is in compliance with the Wild and Scenic Rivers Act.

Supporting documentation

Attachment 17 - Wild and Scenic Rivers Map.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No

Environmental Justice

General requirements	Legislation	Regulation
Determine if the project	Executive Order 12898	
creates adverse environmental		
impacts upon a low-income or		
minority community. If it		
does, engage the community		
in meaningful participation		
about mitigating the impacts		
or move the project.		

HUD strongly encourages starting the Environmental Justice analysis only after all other laws and authorities, including Environmental Assessment factors if necessary, have been completed.

1. Were any adverse environmental impacts identified in any other compliance review portion of this project's total environmental review?

Yes

✓ No

Based on the response, the review is in compliance with this section.

Screen Summary

Compliance Determination

No adverse environmental impacts were identified in the project's total environmental review. The project is in compliance with Executive Order 12898.

Supporting documentation

Attachment 18- EJScreen Community Report.pdf

Are formal compliance steps or mitigation required?

Yes

✓ No



U.S. Department of Housing and Urban Development 451 Seventh Street, SW Washington, DC 20410 www.hud.gov espanol.hud.gov

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

Project Information

Project Name: Bagley-Townhomes-and-Flats-on-10th

HEROS Number: 900000010454400

Start Date: 02/19/2025

Project Location: Multiple, Detroit, MI 48216

Additional Location Information:

Parcel C is identified as 1563 Bagley Street and is located at the southwest corner of Bagley Street and Trumbull Road. Parcel C contains 0.975 acres of a larger parcel of land identified as Parcel No. 08000246-346. Parcel C will be composed of the following addresses: 1531 Bagley St. Detroit, MI 48216 1533 Bagley St. Detroit, MI 48216 1537 Bagley St. Detroit, MI 48216 1541 Bagley St. Detroit, MI 48216 1543 Bagley St. Detroit, MI 48216 1547 Bagley St. Detroit, MI 48216 1551 Bagley St. Detroit, MI 48216 1555 Bagley St. Detroit, MI 48216 1559 Bagley St. Detroit, MI 48216 1561 Bagley St. Detroit, MI 48216 1565 Bagley St. Detroit, MI 48216 1567 Bagley St. Detroit, MI 48216 CKG East 2021 Limited Dividend Housing Association L.L.C. ("CKGE 2021") is the proposed purchaser of the property. CKGE 2021 does not currently have ownership of the property. Maps depicting the project location, the boundaries of Parcel C, and the locations of the proposed buildings are attached.

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The project is the first phase in a multi phased redevelopment plan that involves demolition of an existing 87-unit apartment complex and construction of a new 370-unit apartment complex with a mix of unit types. Bagley Townhomes and Flats on 10th (aka Parcel C) located at 1563 Bagley contains 0.975 acre of land. Parcel C, the subject of this EA, is currently developed with one multi-family residential building and is used for residential purposes. CKG East 2021 Limited Dividend Housing Association L.L.C. ("CKGE 2021") will be redeveloping the subject property for multi-family residential usage by demolishing the existing building and constructing four new multi-family residential buildings. Exterior portions of the site will be paved for drive, parking areas, or walkways, other areas include green space areas or landscaping: -Flats North: 3 stories, 18,105 square feet -Flats South: 3 stories, 18,105 square feet Townhome East: 3 stories, 12,268 square feet Townhome West: 3 stories, 12,268 square feet Fifty-four units will be constructed. Amenities will include a community room, in-unit W/D, central A/C, garbage disposals, window coverings, and dishwashers. No parking improvements are planned for Parcel C. Units to include: -studio type A: 347 sf (one unit) -studio type B: 347 sf (one unit) -studio 2: 315 sf each (8 units) -1 BR Type A: 709 sf each (2 units) -1 BR 2: 517 sf each (8 units) -1 BR 3: 635 sf each (8 units) -2 BR 1 Type A: 854 sf (1 unit) -2

Bagley-Townhomes-and-Flats-on-10th

Detroit, MI

900000010454400

BR 2 Type A: 958 sf (1 unit) -2 BR2 Type B: 958 sf each (3 units) -2 BR 3: 916 sf each (8 units) -3 BR Type A: 1,169 sf (1 unit) -Townhouse Style A: 1,933 sf each (4 units) -Townhouse Style B: 1,909 sf each (8 units) This review is for \$4,366,804 in Choice funding. This review is valid for five years.

Funding Information

Grant Number	HUD Program	Program Name	
MI5F536CNG120	Public Housing	Choice Neighborhoods	\$4,366,804.00

Estimated Total HUD Funded Amount: \$4,366,804.00

Estimated Total Project Cost [24 CFR 58.2 (a) (5)]: \$24,002,052.00

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

Summarized below are 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 or Condition			
Historic Preservation	During government-to-government tribal			
	consultation (54 U.S.C. 302706 (b)), the Forest County Potawatomi Community Tribal Historic			
	Preservation Officer made a request for			
	archaeological monitoring of the site; due to the			
	prevalence of Potawatomi villages and fisheries			
	along the Detroit River and the depth of excavation			
	proposed. They raised concerns that this undertaking			
	could disturb previously undisturbed sub-surface			
	resources. The City of Detroit and SHPO have			
	recommended monitoring across the Clement Kern			
	Development site (Bagley Townhomes & 10th Street			
	Flats, West of 10th, and Trumbull Developments) in			
	order to address the concerns of the Forest County			
	Potawatomi and avoid adverse effects to potential			
	precontact and historic period archaeological			
	resources. An archaeology monitoring plan was			
	submitted for consideration and approved through			
	consultation with SHPO and Tribes.			
Contamination and Toxic Substances	On December 19, 2024, EGLE approved the			
	submitted ResAP. Since that time, we have updated			
	the scope of work for the site to include the removal			
	of a minimum of four feet of soil across the entire			
	Project site. Based on recent conversations with			
	EGLE, this scope eliminates the requirement for			
	incremental sampling.			

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Bagley-Townhomes-and-Flats-on-10th

Detroit, MI

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The updated proposed response activities for Pacel C are based on the EGLE-approved Response Activity Plan for Parcel D adjacent the Project site. This plan was approved March 17, 2025.

At least four feet of soil will be removed from the entire subject property. Excavation will occur to the property boundaries in all directions. The soil will be disposed off-site at a licensed Type 2 landfill. Copies of load tickets, bills of lading, and/or manifests for each shipment of soil transported off the subject property for disposal will be retained by the owner. Prior to the removal of the soil from the subject property will be surveyed to determine the current grade elevations. Following completion of excavation activities, the subject property will be re-surveyed to confirm a minimum of four feet of soils have been removed.

Clean soil will be imported to the subject property to return the subject property to near the current grade. Any soils imported to the subject property as part of the development of the direct contact barrier will be sampled periodically to ensure they are not contaminated prior to being utilized for the barrier. At a minimum the imported soils will be sampled and analyzed VOCs by US EPA Method 8260, PNAs by US EPA Method 8270 and the metals arsenic, lead, and selenium by USEPA Methods 6020 and 7471. Additional analysis may be conducted as appropriate. Samples will be collected prior to the placement of the soil on to the property and analyzed at a rate of one sample per every 500 cubic yards of imported soil. Following completion of site grading and hardscape installation, the subject property will be surveyed to confirm that a minimum of four feet of clean fill are present above any potential remaining fill materials.

Current future use plans for the subject property include the redevelopment with four new multifamily residential buildings. Following completion of the excavations for each building foundation on the subject property, VSR samples will be collected from beneath the building foundations. The samples will be collected in accordance with the S3TM guidance document. The VSR samples will be

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Bagley-Townhomes-and-Flats-

on-10th

analyzed for VOCs, PNAs, and the Michigan 10 metals.

Contamination and Toxic Substances

Follow all federal, local, and state guidelines for

Detroit, MI

90000010454400

asbestos abatement for the demolition of buildings.

Project Mitigation Plan

The developer is responsible for implementing the mitigation plan as described during the redevelopment of the property. Following completion of the mitigation plan, the developer or their consultant will create a Documentation of Due Care Compliance that document the activities conducted as part of the mitigation plan and demonstrate that the property is in compliance with Michigan environmental regulations. Once the Documentation of Due Care Compliance is completed, it will be reviewed by the City of Detroit, the Michigan State Housing Development Authority, and finally the Michigan department of Environment, Great Lakes, and Energy (EGLE). Once EGLE is comfortable they will approve the plan concurring that the property is in compliance with the applicable State of Michigan Environmental regulations. Approval of the Documentation of Due Care Compliance is expected to be completed prior to the completion of building construction.

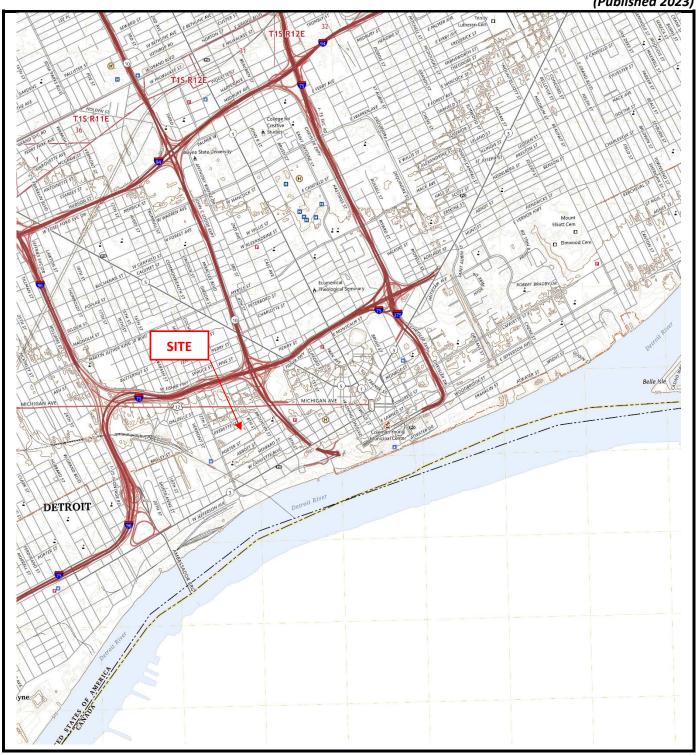
Mitigation Plan - Bagley Townhomes.pdf

11	^ 1	^	rm	 2+	$\boldsymbol{\cdot}$	

X	Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.13] The project will not result		
	in a significant impact on the quality of human environment		
	Finding of Significant ប្រាប់act		
Prepare	r Signature:	ete:	
Name /	Title/ Organization: Kim Siegely/ / DETROIT		
Certifyir	ng Officer Signature:	6/5/2025 Date:	
Name/	Title: Julie Schneider, Director, Housing and Revitalization	on Department	

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

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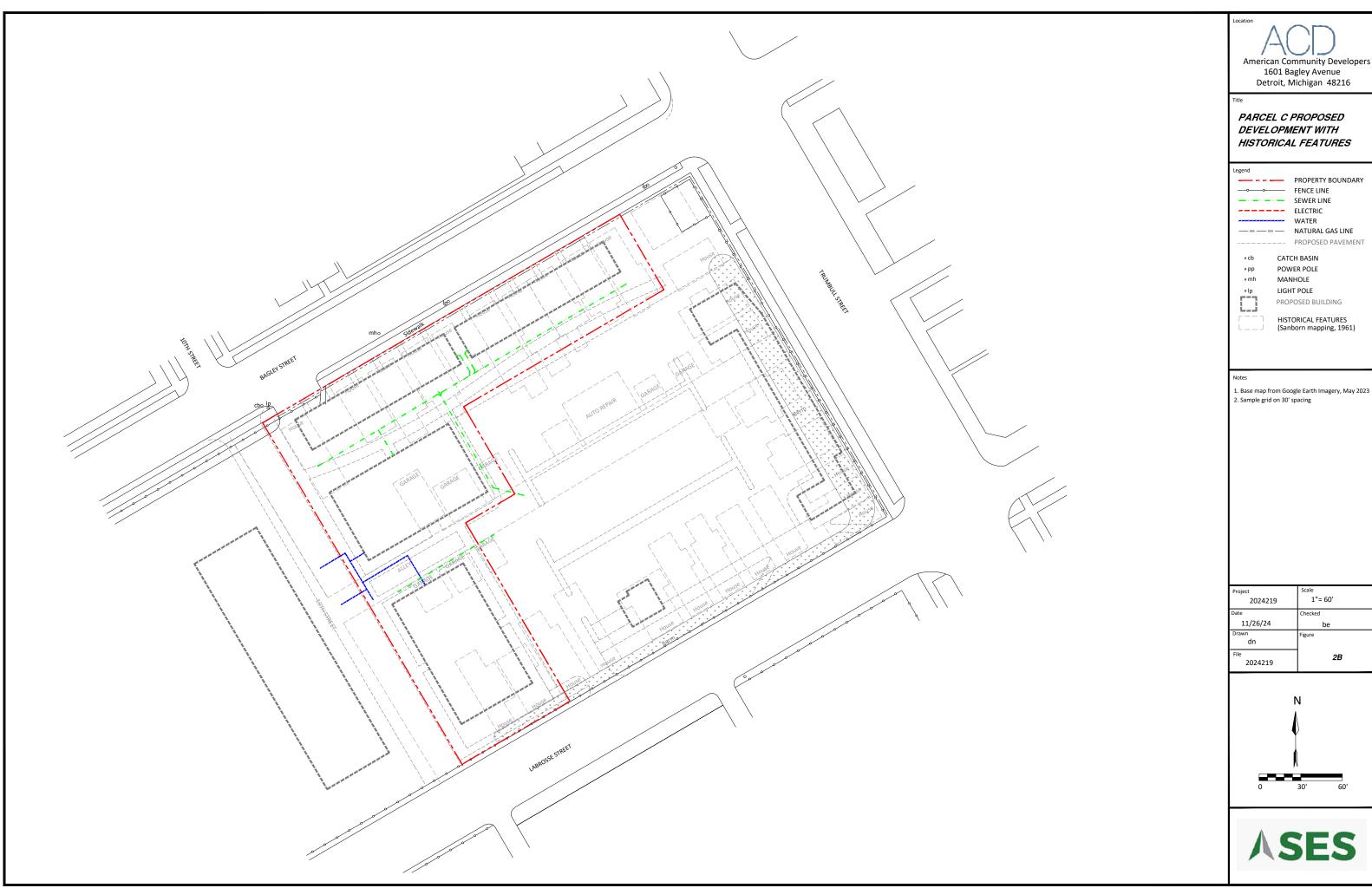


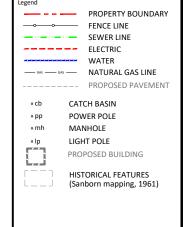
CONTOUR INTERVAL 10 FEET
Site Boundaries Shown are Approximate

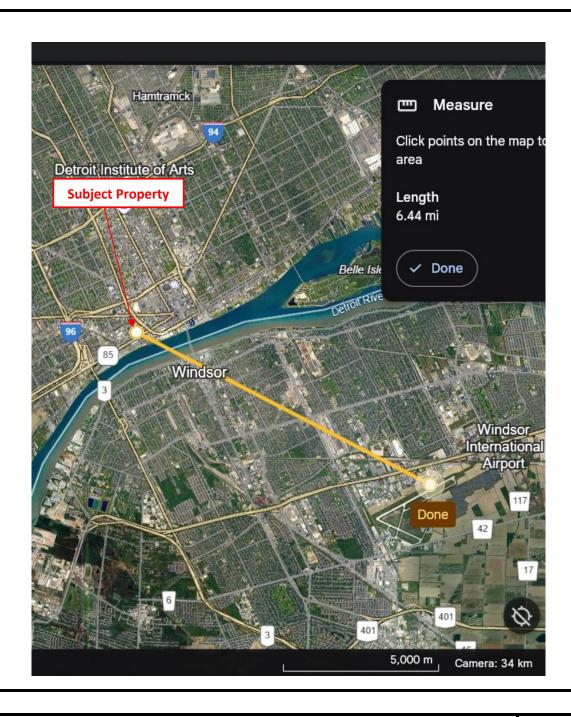
SITE LOCATION MAP

Redevelopment Property 1601 Bagley Street Detroit, Wayne County, Michigan SES Project No.: 2024219 Figure 1

人SES





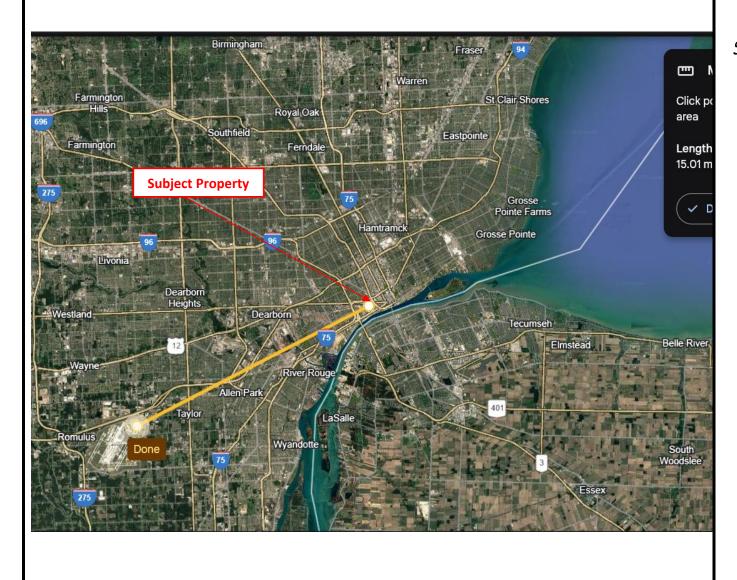


Airport Map

Windsor - 6.44 miles to southeast

Clement Kern Gardens – Parcel C 1601 Bagley Street Detroit, Wayne County, Michigan 48216 SES Project No.: 2025-0140



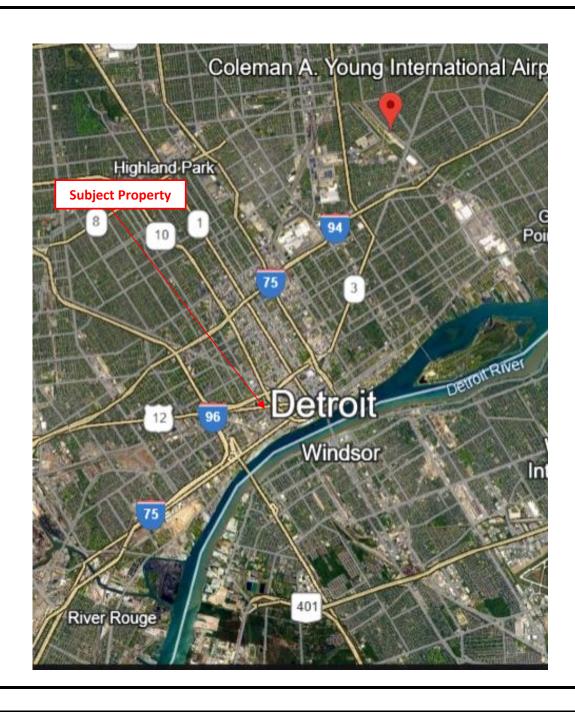


Airport Map

Detroit Metro – 15 miles to southwest

Clement Kern Gardens – Parcel C 1601 Bagley Street Detroit, Wayne County, Michigan 48216 SES Project No.: 2025-0140





Airport Map

Coleman Young Airport – 6.12 miles to northeast

Clement Kern Gardens – Parcel C 1601 Bagley Street Detroit, Wayne County, Michigan 48216 SES Project No.: 2025-0140





U.S. Fish and Wildlife Service

Coastal Barrier Resources System

CBRS Mapper



February 6, 2025

CBRS Buffer Zone

CBRS Units

Otherwise Protected Area

System Unit

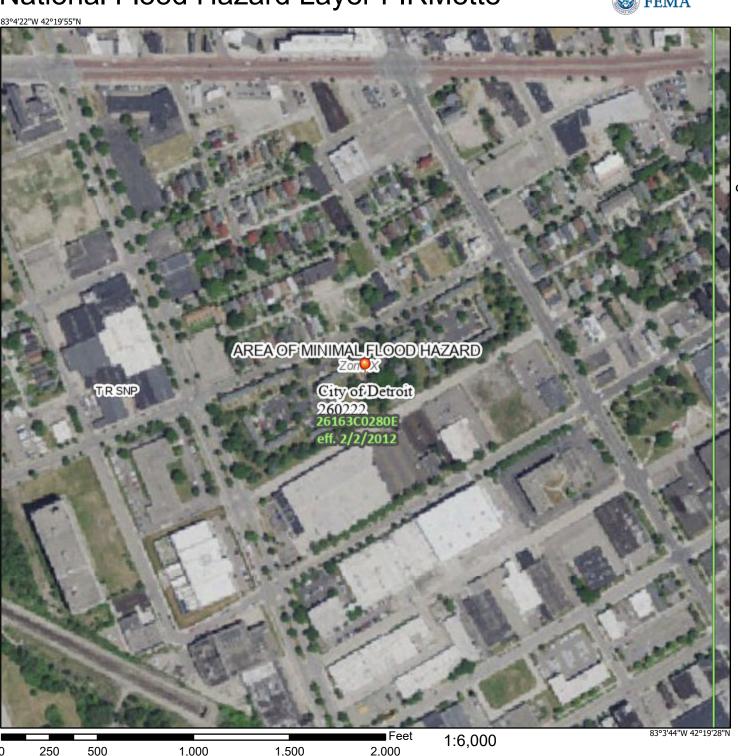
This map is for general reference only. The Coastal Barrier Resources System (CBRS) boundaries depicted on this map are representations of the controlling CBRS boundaries, which are shown on the official maps, accessible at https://www.fws.gov/library/collections/official-coastalbarrier-resources-system-maps. All CBRS related data should be used in accordance with the layer metadata found on the CBRS Mapper website.

The CBRS Buffer Zone represents the area immediately adjacent to the CBRS boundary where users are advised to contact the Service for an official determination (https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation) as to whether the property or project site is located "in" or "out" of the CBRS.

CBRS Units normally extend seaward out to the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward

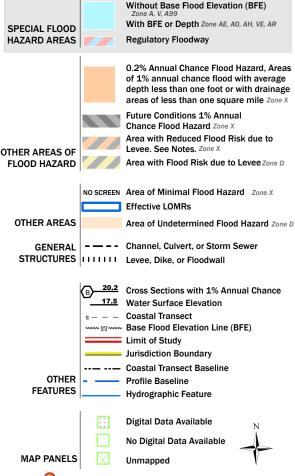
National Flood Hazard Layer FIRMette





Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The pin displayed on the map is an approximate point selected by the user and does not represent

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/7/2025 at 10:31 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

AIR QUALITY DIVISION



March 25, 2025

Mike Essian CKG East 2021 Limited Dividend Housing Association LLC 20250 Harper Avenue Detroit, Michigan 48226

Via Email Only

Dear Mike Essian:

Subject: Bagley Townhomes Project – Detroit, Michigan

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) has reviewed the federal regulations related to general conformity of projects with state implementation plans (SIP) for air quality. In particular, 40 Code of Federal Regulations (CFR) Section 93.150 et seq, which states that any federally funded project in a nonattainment or maintenance area must conform to the Clean Air Act requirements, including the State's SIP, if they may constitute a significant new source of air pollution.

On August 3, 2018, Wayne County was designated nonattainment for the 2015 ozone standard; and thus, general conformity must be evaluated when completing construction projects of a given size and scope. EGLE has completed the required SIP submittals for this area and on May 19, 2023, the United States Environmental Protection Agency (USEPA) redesignated the seven-county southeast Michigan area (including Wayne County) from nonattainment to attainment/maintenance. General conformity does, however, still require an evaluation during the maintenance period. For this evaluation, EGLE considered the following information from the USEPA general conformity guidance, which states, "historical analysis of similar actions can be used in cases where the proposed projects are similar in size and scope to previous projects."

EGLE has reviewed the Bagley Townhomes Project proposed to be completed with federal grant monies, including the demolition of an existing 87-unit apartment complex and multi-phased redevelopment of the parcel located in Detroit's Corktown neighborhood. The approximately 8.925-acre parcel (parcel No. 08000246-346 — Parcel C) located at 1601 Bagley Street will see construction of a new apartment complex with a mix of unit types. The proposed project is part of a redevelopment through the Housing and Urban Development (HUD) Choice Neighborhoods Initiative. The redevelopment is anticipated to occur in multiple phases over 4 to 6 years beginning with the eastern portion (Parcel C) and continuing across the western boundary. When completed, the property will include a mix of market rate and affordable rental housing options to target a wide range of household incomes. The building types of the new construction include 4-story midrise buildings with elevators, 3-story townhouses, and 3-story walkup flats, with a total of 370 apartment units.

Mike Essian Page 2 March 25, 2025

Exterior portions will be paved for drive, parking areas, or walkways, green space areas, or will be landscaped. The initial phase of the project is anticipated to begin in summer 2025 and will be completed in approximately two years.

In reviewing the "Air Quality and Greenhouse Gas Study: Uptown Orange Apartments in Orange, California," dated December 2012, prepared for KTGY Group, Inc. by UltraSystems Environmental, Inc., it was determined that emission levels for the project were below the de minimis levels for general conformity. The Uptown Orange Apartments project and related parking structure construction was estimated to take 33 months to complete, would encompass an area of 5.57 acres, and included two four-story residential units with a total of 334 apartments, and two parking structures with a total of 494 and 679 parking stalls, respectively.

The size, scope and duration of the Bagley Townhomes Project proposed for completion in Wayne County Michigan is similar in scale to the Uptown Orange Apartments project described above and should not exceed the de minimis levels included in the federal general conformity requirements. Therefore, it does not require a detailed conformity analysis.

If you have any further questions regarding this matter, please contact me at 517-648-6314; BukowskiB@Michigan.gov; or EGLE, AQD, P.O. Box 30260, Lansing, Michigan 48909-7760.

Sincerely,

Breanna Bukowski Environmental Quality Analyst

Breams Brikanski

Air Quality Division

cc: Michael Leslie, USEPA Region 5 Kim Siegel, City of Detroit Mary Place, SES Environmental

Attainment Status for the National Ambient Air Quality Standards

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

The National Ambient Air Quality Standards (NAAQS) are health-based pollution standards set by EPA.

Ontonagon

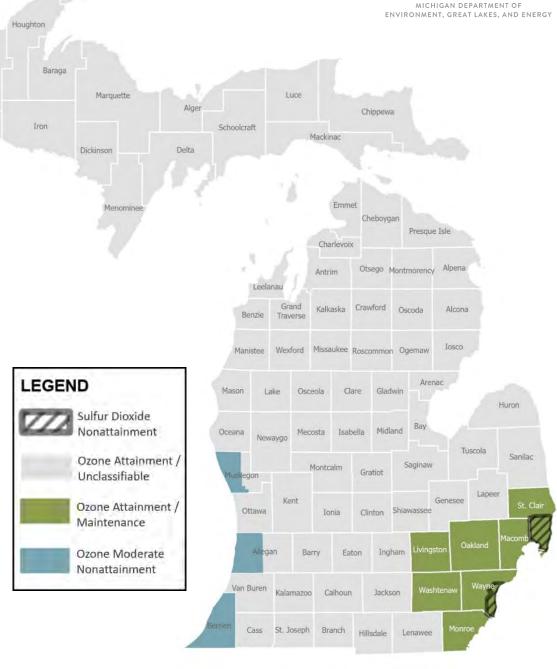
Areas of the state that are below the NAAQS concentration level are called **attainment areas.** The entire state of Michigan is in attainment for the following pollutants:

- Carbon Monoxide (CO)
- Lead (Pb)
- Nitrogen Dioxide (NO2)
- Particulate Matter (PM10 & PM2.5)

Nonattainment areas are those that have concentrations over the NAAQS level. Portions of the state are in nonattainment for sulfur dioxide and ozone (see map.) The ozone nonattainment area is classified as moderate.

Areas of the state that were previously classified as nonattainment but have since reduced their concentration levels below the NAAQS can be redesignated to attainment and are called **attainment/maintenance areas**. These areas are also commonly referred to as "attainment" after reclassification, however the state must continue monitoring and submitting documentation for up to 20 years after the redesignated. There are several maintenance areas throughout the state for lead, ozone, and particulate matter.

*For readability purposes the map only includes the most recently reclassified ozone maintenance area in southeast Michigan. For more information, please consult the Michigan.gov/AIR webpage or contact the division directly.

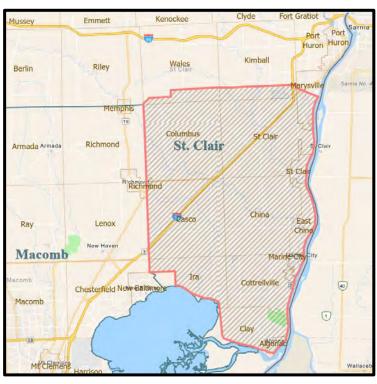


*See Page 2 for close-up maps of partial county nonattainment areas.

Close-Up Maps of Partial County Nonattainment Areas

Sulfur Dioxide Nonattainment Areas

St. Clair County

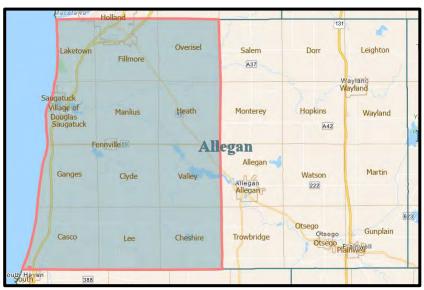


Wayne County



Ozone Moderate Nonattainment Areas

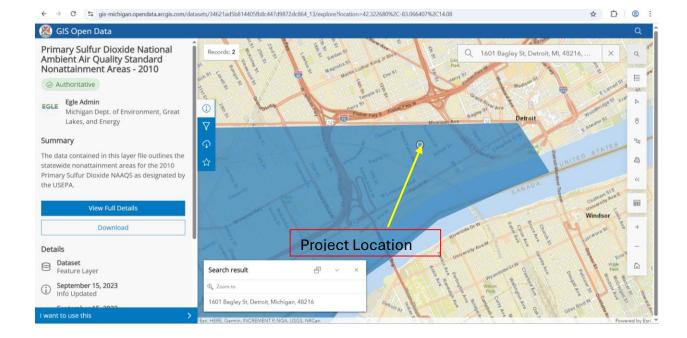
Allegan County

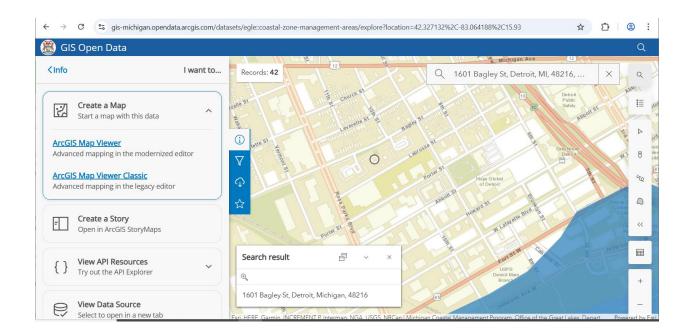


Muskegon County











STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

REMEDIATION AND REDEVELOPMENT DIVISION



December 19, 2024

VIA EMAIL

Michael D. Essian II CKG East 2021 Limited Housing Dividend Association L.L.C. 20250 Harper Avenue Detroit, Michigan 48226

Dear Michael Essian:

SUBJECT: Notice of Approval of the Response Activity Plan

Proposed Bagley Townhomes and Flats

1601 Bagley Street, Detroit, Wayne County, Michigan

Parcel ID Number: 0.96-acre portion of Parcel #08000246-346

Facility ID Number: Part of 82009112

The Department of Environment, Great Lakes, and Energy (EGLE) Remediation and Redevelopment Division (RRD) has reviewed the Response Activity Plan (ResAP) containing an Evaluation Plan and a Remedial Action Plan for response activities to be undertaken at a 0.9-acre portion of the property currently known as Clement Kern Gardens, proposed to become Bagley Townhomes and Flats, located at the above-referenced address. The ResAP was submitted on your behalf pursuant to Section 20114b of Part 201 Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) on November 4, 2024, by Brian Earl of SES Environmental, and the final revised version was received by EGLE on December 11, 2024.

Based upon the representations and information contained in the submittal, the ResAP is approved. EGLE agrees with the pathway evaluation that is documented in the submittal and it appears consistent with our understanding of the reporting and/or environmental review requirements established by the Michigan State Housing Development Authority (MSHDA), the city of Detroit Housing and Revitalization Department (HRD), and the United States Department of Housing and Urban Development (HUD) for the portion of parcel number 08000246-346 that is proposed to become Bagley Townhomes and Flats. EGLE expresses no opinion on the adequacy of the proposed response activities to address conditions that are not represented, described, or contained within the submittal. If environmental contamination is found to exist that is not addressed by the ResAP and you are otherwise liable for the contamination, additional response activities, possibly including a post-closure agreement and/or establishing a financial assurance mechanism, may be necessary. Further, since the ResAP does not consider all complete or relevant exposure pathways (as applicable) for the remainder of parcel number 08000246-346, EGLE cannot confirm

that the entire parcel (currently known as Clement Kern Gardens) is or will be safe for residential use.

CKG East 2021 Limited Housing Dividend Association L.L.C. should be advised that in the event that the Remedial Action Plan is executed, the sampling strategy proposed to confirm that imported backfill does not exceed Part 201 generic residential criteria before placement on the subject property may not meet city of Detroit guidelines for backfill material evaluation and testing. It is recommended that city of Detroit representatives be consulted to confirm the proposed backfill testing will be acceptable. Please note that in addition to the sampling strategy, future due care submittals should adequately document the source and nature of all imported backfill.

The owner and operator of this property may also have responsibility under applicable state and federal laws, including but not limited to, Part 201, Environmental Remediation; Part 111, Hazardous Waste Management; Part 211, Underground Storage Tank Regulations; Part 213, Leaking Underground Storage Tanks; Part 615, Supervisor of Wells, of the NREPA; and the Michigan Fire Prevention Code, 1941 PA 207, as amended.

This approval is pursuant to the applicable requirements of the NREPA. MSHDA, HRD, or HUD may have additional site selection requirements beyond the NREPA statutory obligations for site characterization and remedial actions or response activities necessary to prevent, minimize, or mitigate injury to public health, safety, or welfare, or to the environment.

If you should have further questions or concerns, please contact Martha Thompson, RRD, Brownfield Assessment and Redevelopment Section, at 517-285-3461 or by email at ThompsonM31@michigan.gov.

Sincerely,

Carrier Geyer, Manager

Carrie X. Ly

Brownfield Assessment and Redevelopment

Section

Remediation and Redevelopment Division

GeyerC1@Michigan.gov

cc: Brian Earl, SES Environmental
Paul Owens, EGLE
Martha Thompson, EGLE
Jarrett McFeters, EGLE
Devon Nagengast, EGLE

<u>Phase I Environmental Site Assessment, Clement Kern Apartments, prepared by CTI and Associates, Inc., dated June 12, 2003 and revised June 9, 2003</u>

CTI conducted the Phase I ESA for the Clements Kern Gardens property. The report identified RECs associated with the following: 1) the historical operation of several automobile repair facilities; 2) the historical operation of a Detroit National Stamping Company facility; and 3) potential use of heating oil USTs from at least 1884 through 1957.

Parcel C's historical review confirms the parcel was developed with residential dwellings since at least 1884. By 1921, two of the garages along the alley behind the former residential buildings on Bagley Street had been converted to automotive repair shops. All of the former residential buildings were demolished in 1960. The subject property remained vacant until the development of the existing multi-family residential structures in 1984. As such, the first two RECs pertain to Parcel C, the proposed project and subject of this EA.

Phase II Environmental Site Assessment, Clement Kern Apartments, prepared by CTI and Associates, Inc., dated July 7, 2003

CTI conducted a Phase II ESA for the entire Clement Kern Gardens property. The investigation include completion of a magnetometer survey and seven geo-probe borings (two of these borings were associated with Parcel C) to a maximum depth of 25 feet bgs. Review of the magnetometer field data survey revealed no significant anomalies. Borings were advanced in locations associated with historical automobile (Parcel C) and stamping operations and former housing locations (Parcel C). Samples were collected and submitted for volatile organic compounds (VOCs), polynuclear aromatics (PAHs), polychlorinated biphenyls (PCBs), and 10 Michigan metals.

Review of laboratory testing results revealed metals and PAH constituents; however, the majority of detected concentrations did not exceed applicable MDEQ Generic Residential Criteria. Arsenic was detected at elevated concentrations; however, a representative of the MDEQ Remediation and Redevelopment Division stated arsenic concentrations (7,600 ppb) detected at the property did not warrant designation as a "facility," as the background arsenic level in Detroit was determined to be 13,000 ppb. No further action was recommended.

Phase I Environmental Site Assessment, Clement Kern Gardens (East Portion), prepared by ASTI Environmental, dated September 30, 2022

ASTI completed a Phase I ESA for Parcel C, the subject property and subject of this EA, in 2022. The report indicates VOCs and metals concentrations detected during the 2003 Phase II investigation exceeded current Part 201 GRCC. The TCE concentration exceeded current volatilization to indoor air pathway (VIAP) screening levels, and lead concentrations were not analyzed for fine and coarse fractions. The report also identified that fill material was likely placed onto the subject property in the 1960s during demolition in 1960 and 1961. These two findings were identified as RECs.

Asbestos-Containing Material Inspection, Clement Kern Gardens, prepared by ASTI Environmental, dated April 10, 2023

The report indicates an asbestos survey was conducted for all 12 buildings located on the 8.8-acre parcel, which includes Parcel C. Basement wall texture in each building and 40 sets of fire doors and

frame sets were confirmed or presumed asbestos containing. According to the classification guidelines, the wall texture was classified as a Category II non-friable ACM.

<u>Limited Phase II Environmental Site Assessment, Clement Kern Gardens, prepared by ASTI Environmental, dated October 4, 2023</u>

ASTI completed a Phase II ESA for the entire apartment community in 2023. The report referenced a Phase I ESA conducted by ASTI in March 2023. The March Phase I ESA reportedly identified former cleaners and dyers, automobile repair, UST, and metal stamping operations as a REC. The report indicates a second REC regarding the presence of VOCs and metals at concentrations exceeding current Part 201 GRCC. The report also identified a third REC regarding fill material of unknown origin at the property. Two additional RECs were identified regarding a former 500-gallon gasoline US adjacent to a repair shop in a 1921 Sanborn fire insurance maps and historical operations as a cleaners and dyer in 1965. It should be noted that Parcel C, the subject property and subject of this EA, consisted of former residences, potential fill areas, and automobile repair operations only. Remaining RECs pertaining to former metal stamping operations, a second automobile repair facility, a clothe cleaners and dyer, and a former UST location are associated with areas of the apartment community not associated with Parcel C.

Phase II investigation on Parcel C included advancement of 24 soil borings to depths between 8 and 16 feet bgs.

Soil samples exhibited concentrations of arsenic, lead, mercury, selenium, acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, fluoranthene, fluorene, 2-methylnaphthalene, naphthalene, phenanthrene, cis-1,2-dichloroethylene, 1,1-dichloroethylene, and/or trichloroethylene at concentrations exceeding the GRCC for DWP, GSIP, SVIAI, VSIC, and/or DC in the soil samples. In addition, mercury, 2-methylnaphthalene, naphthalene, phenanthrene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, 1,1-dichloroethylene, and trichloroethylene were identified in the soil samples at concentrations exceeding the residential VIAP screening levels. The property met the definition of a "facility" as defined in Part 201. A Baseline Environmental Assessment (BEA) and Due Care Plan were recommended. No groundwater was encountered during the investigation.

Response Activity Plan -Evaluation Plan and Remedial Action Plan, Parcel C, prepared by SES Environmental, dated December 2, 2024

The report was prepared for Parcel C, the subject property and subject of this EA only.

The subject property was c developed with one multi-family residential building and used for residential purposes. The parcel would be redeveloped for multi-family residential use by demolishing the existing building and constructing four new multi-family residential buildings. Exterior portions will be paved for drive, parking areas, or walkways, green space areas, or will be landscaped.

As part of the redevelopment of the subject property, removal and reconfiguration of the majority of the current underground utilities to facilitate the proposed redevelopment. Utilities that will not be needed for the future development will be cut and capped at the parent parcel boundary. However, most of the proposed future utility locations have not been determined.

Based on the research completed as part of previously completed Phase I ESAs, the subject property was developed with residential dwellings since at least 1884. By 1921, two of the garages along the alley behind the former residential buildings on Bagley Street had been converted to automotive repair shops. All of the former residential buildings were demolished in 1960. The subject property remained vacant until the development of the existing multi-family residential structures in 1984.

During the completion of the 2003 Phase II ESA, a detection of trichloroethylene (TCE) was identified in soil boring SB-6 at a concentration of 57 $\mu g/kg$. It should be noted that the SB-6 from the 2003 Phase II ESA was completed in approximately the same location as SB-7 from the 2023 Phase II ESA. No VOCs were detected in the soil samples collected from the SB-7 completed as part of the 2023 Phase II ESA. Therefore, based on the fact that the detected TCE is located off the subject property, the age of the detection, and the lack of any VOCs having been detected in any of the soil fill samples analyzed as part of the 2023 Phase II ESA, the detection of TCE during the 2003 Phase II ESA was considered to not be a significant concern for the subject property.

Additionally, the Phase II ESA completed in 2003 identified groundwater in two borings between 10 and 11 feet below grade. However, the groundwater was reported to be in insufficient quantity to sample and therefore groundwater samples were not collected. The 2023 Phase I ESA erroneously notes that groundwater samples were collected during the 2003 investigation. However, review of the 2003 Phase II ESA report summary identified that no samples were collected.

In addition to the reports discussed above, SES conducted additional soil and soil vapor sampling on the subject property and parent parcel in March of 2024. The soil sampling consisted of seven borings (i.e., GP-1 through GP-5, GP-7, and GP-8) completed to delineate the PNAs detected at boring SB-12 (completed in 2023) and two borings (i.e., GP-9 and GP-10) completed to delineate the fill materials identified in SB-13 and SB-14 respectively. In addition, SES completed 10 shallow soil gas wells (i.e., SG-1 through SG-10) at the locations of the proposed future buildings. Of these borings, GP-2 was the only soil boring and SG-5 through SG-10 were the only soil gas wells completed on the subject property. Refer to Figures 2A and 2B for the locations of the 2023 and 2024 samples in relation to the current and proposed developments respectively. Three soil samples were collected from GP-2. All the soil samples were analyzed for PNAs and the Michigan 10 metals. The laboratory analytical results identified no PNAs at concentrations exceeding any of the GRCC. The laboratory results reported the metals arsenic, lead, mercury, and selenium at concentrations exceeding one or more GRCC.

The soil gas wells were installed to approximately 5 feet bgs. Each of the soil gas wells were sampled for PNAs and mercury. No PNAs or mercury were identified at levels exceeding the laboratory reporting limit in any of the vapor samples.

No groundwater was encountered in the soil borings completed on the subject property in 2023 and 2024. However, limited groundwater was reported in two soil borings completed in 2003 on the parent parcel but not the subject property. This groundwater was identified as not being present in quantities sufficient to collect samples.

ISM sampling has been proposed. It is anticipated that the ISM sampling results will result in PNA and metals concentrations that are below the GRCC for DC. However, in the event that an exceedance of the GRCC for DC is identified, remedial actions will be completed.

Current future use plans for the subject property include the redevelopment with four new multi-family residential buildings. The buildings will include two town-home type buildings along Bagley Street and two

three-story apartment buildings. The townhome buildings will be constructed on poured concrete basement foundations with poured concrete floors. The basements will be excavated to approximately eight feet below grade. The apartment buildings will be constructed on poured concrete slab on-grade foundations. As part of the construction of the apartment buildings, all soils beneath the future slabs will be excavated to remove all urban fill materials from within the building foundation or a minimum of 4 feet bgs. In addition, all former utilities beneath each building will be removed to at least five feet from the building foundation. Based on all of the soils beneath each building being excavated to a minimum depth of 4 feet below grade, the building foundation areas were excluded from the ISM sampling.

Following completion of the excavations for the building foundations on the subject property, VSR samples will be collected from the excavations to determine if all impacted urban fill has been removed from beneath the building foundations. The samples will be collected in accordance with the S3TM guidance document. The VSR samples will be analyzed for VOCs, PNAs, and the Michigan 10 metals. In addition, all excavation and disposal will be conducted in compliance with the applicable local, State, and Federal regulations. The vertical and horizontal locations of the samples and the depth(s) of the excavation will be documented. In addition, photographs documenting the removal of the urban fill will be collected during and after excavation.

If the results of these VSR samples indicate that no impacts remain present beneath the proposed buildings, the building foundations (either slab on grade or basements) will be excluded from the direct contact barrier if implemented. If the VSR sample results indicate that impacts will remain beneath the proposed buildings, the foundations will be considered part of the direct contact barrier.

Prior to the construction of the building foundations, the berm area on the southern portion of the subject property will be excavated and disposed off-site. The excavation and disposal will be conducted in compliance with the applicable local, State, and Federal regulations.

EGLE Correspondence, December 19, 2024

The document indicates the submitted Response Activity Plan was approved. EGLE agreed with the pathway evaluation that was documented in the submittal and confirmed the evaluation was consistent with "our understanding of the reporting and/or environmental review requirements established by the Michigan State Housing Development Authority (MSHDA), the City of Detroit Housing and Revitalization Department (HRD), and the United States Department of Housing and Urban Development (HUD) for the portion of parcel number 08000246-346 that is proposed to become Bagley Townhomes and Flats."

Correspondence, March 20, 2025

Correspondence from CKG to the City of Detroit indicates updated proposed response activities for Parcel C are based on the EGLE-approved Response Activity Plan for Parcel D adjacent the Project site. This plan was approved March 17, 2025. Here is a summary of the proposed activities at the Project site:

As part of the redevelopment of the subject property, at least four feet of soil will be removed from the entire subject property. Excavation will occur to the property boundaries in all directions. The soil will be disposed off-site at a licensed Type 2 landfill. Copies of load tickets, bills of lading, and/or manifests for each shipment of soil transported off the subject property for disposal will be retained by the owner. Prior to the removal of the soil from the subject property will be surveyed to determine the

current grade elevations. Following completion of excavation activities, the subject property will be re-surveyed to confirm a minimum of four feet of soils have been removed.

Clean soil will be imported to the subject property to return the subject property to near the current grade. Any soils imported to the subject property as part of the development of the direct contact barrier will be sampled periodically to ensure they are not contaminated prior to being utilized for the barrier. At a minimum the imported soils will be sampled and analyzed VOCs by US EPA Method 8260, PNAs by US EPA Method 8270 and the metals arsenic, lead, and selenium by USEPA Methods 6020 and 7471. Additional analysis may be conducted as appropriate. Samples will be collected prior to the placement of the soil on to the property and analyzed at a rate of one sample per every 500 cubic yards of imported soil. Following completion of site grading and hardscape installation, the subject property will be surveyed to confirm that a minimum of four feet of clean fill are present above any potential remaining fill materials.

Current future use plans for the subject property include the redevelopment with four new multifamily residential buildings. Following completion of the excavations for each building foundation on the subject property, VSR samples will be collected from beneath the building foundations. The samples will be collected in accordance with the S3TM guidance document. The VSR samples will be analyzed for VOCs, PNAs, and the Michigan 10 metals. In addition, all excavation and disposal will be conducted in compliance with the applicable local, State, and Federal regulations. The vertical and horizontal locations of the samples and the depth(s) of the excavation will be documented. In addition, photographs documenting the removal of the urban fill will be collected during and after excavation.

RADON: Per the HUD CPD-23-103 Policy for Addressing Radon, the City of Detroit has elected to follow Consideration III A ii. 3) Scientific Data Review to determine whether the project site is located in an area that has average documented radon levels at or above 4 pCi/L. The Housing and Revitalization Department (HRD) has collected radon samples throughout the City of Detroit. According to the HRD Indoor Radon Map, the City is in a geographic area with radon under the levels suggested for mitigation. Since November 2023, fifty-nine (59) tests were taken throughout the City. The average results of the tests are 0.74 pCi/L. Based on the samples taken in the City and the results averaging under 4 pCi/L, no additional testing is required.

ASBESTOS: Please see the April 2023 report prepared by ASTI for details, summarized above.

HAZARDOUS MATERIALS/PRE DEMOLITION SURVEY: Given the age of construction for the property, lead-based paint is not anticipated to be present, however, lead-containing paint is assumed to be present.

Universal Waste and other identified potential hazardous that are present at the subject property will be handled, removed, transported, and disposed of in accordance with applicable local, state, and federal requirements.

During an asbestos containing materials inspection conducted by ASTI Environmental (ASTI) on March 27, 2023, the following asbestos containing materials (ACMs) were identified on the subject property. Basement wall texture (white) within the existing building. In addition, the fire doors and frames within the

IPaC

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location





Local office

Michigan Ecological Services Field Office

(517) 351-2555

(517) 351-1443

NOT FOR CONSULTATIO

2651 Coolidge Road Suite 101 East Lansing, MI 48823-6360

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME STATUS

Indiana Bat Myotis sodalis

Endangered

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/5949

Birds

NAME STATUS

Rufa Red Knot Calidris canutus rufa

Threatened

Wherever found

This species only needs to be considered if the following condition applies:

 Only actions that occur along coastal areas during the Red Knot migratory window of MAY 1 - SEPTEMBER 30.

There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/1864

Reptiles

NAME STATUS

Eastern Massasauga (=rattlesnake) Sistrurus catenatus

Threatened

Wherever found

This species only needs to be considered if the following condition applies:

• For all Projects: Project is within EMR Range

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/2202

Insects

NAME STATUS

Monarch Butterfly Danaus plexippus

Proposed Threatened

Wherever found

There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/9743

Flowering Plants

NAME STATUS

Eastern Prairie Fringed Orchid Platanthera leucophaea

Threatened

Wherever found

No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/601

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act 2 and the Migratory Bird Treaty Act (MBTA) 1 . Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds
 https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds

- Nationwide avoidance and minimization measures for birds
 https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

There are Bald Eagles and/or Golden Eagles in your <u>project</u> area.

Measures for Proactively Minimizing Eagle Impacts

For information on how to best avoid and minimize disturbance to nesting bald eagles, please review the <u>National Bald Eagle Management Guidelines</u>. You may employ the timing and activity-specific distance recommendations in this document when designing your project/activity to avoid and minimize eagle impacts. For bald eagle information specific to Alaska, please refer to <u>Bald Eagle Nesting and Sensitivity to Human Activity</u>.

The FWS does not currently have guidelines for avoiding and minimizing disturbance to nesting Golden Eagles. For site-specific recommendations regarding nesting Golden Eagles, please consult with the appropriate Regional <u>Migratory Bird Office</u> or <u>Ecological Services Field</u> Office.

If disturbance or take of eagles cannot be avoided, an <u>incidental take permit</u> may be available to authorize any take that results from, but is not the purpose of, an otherwise lawful activity. For assistance making this determination for Bald Eagles, visit the <u>Do I Need A Permit Tool</u>. For assistance making this determination for golden eagles, please consult with the appropriate Regional <u>Migratory Bird Office</u> or <u>Ecological Services Field Office</u>.

Ensure Your Eagle List is Accurate and Complete

If your project area is in a poorly surveyed area in IPaC, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the <u>Supplemental Information on Migratory Birds and Eagles</u>, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to bald or golden eagles on your list, see the "Probability of Presence Summary" below to see when these bald or golden eagles are most likely to be present and breeding in your project area.

Review the FAQs

The FAQs below provide important additional information and resources.

NAME BREEDING SEASON

Bald Eagle Haliaeetus leucocephalus

Breeds Dec 1 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

https://ecos.fws.gov/ecp/species/1626

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

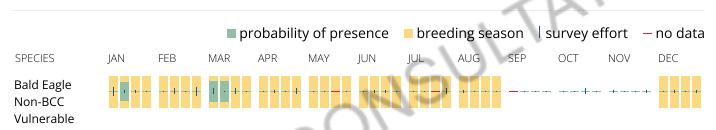
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Bald & Golden Eagles FAQs

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are an eagle (<u>Bald and Golden Eagle Protection Act</u> requirements may apply).

Proper interpretation and use of your eagle report

On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort line or no data line (red horizontal) means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide you in knowing when to implement avoidance and minimization measures to eliminate or reduce potential impacts from your project activities or get the appropriate permits should presence be confirmed.

How do I know if eagles are breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the RAIL Tool and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Migratory birds

The Migratory Bird Treaty Act (MBTA) ¹ prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service). The incidental take of migratory birds is the injury or death of birds that results from, but is not the purpose, of an activity. The Service interprets the MBTA to prohibit incidental take.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds
 https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

Measures for Proactively Minimizing Migratory Bird Impacts

Your IPaC Migratory Bird list showcases <u>birds of concern</u>, including <u>Birds of Conservation</u> <u>Concern (BCC)</u>, in your project location. This is not a comprehensive list of all birds found in your project area. However, you can help proactively minimize significant impacts to all birds at your project location by implementing the measures in the <u>Nationwide avoidance and minimization measures for birds</u> document, and any other project-specific avoidance and minimization measures suggested at the link <u>Measures for avoiding and minimizing impacts to birds</u> for the birds of concern on your list below.

Ensure Your Migratory Bird List is Accurate and Complete

If your project area is in a poorly surveyed area, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the Supplemental Information on Migratory Birds and Eagles document, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

Review the FAQs

The FAQs below provide important additional information and resources.

NAME BREEDING SEASON

Bald Eagle Haliaeetus leucocephalus

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds Dec 1 to Aug 31

https://ecos.fws.gov/ecp/species/1626

Chimney Swift Chaetura pelagica

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Mar 15 to Aug 25

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the

probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

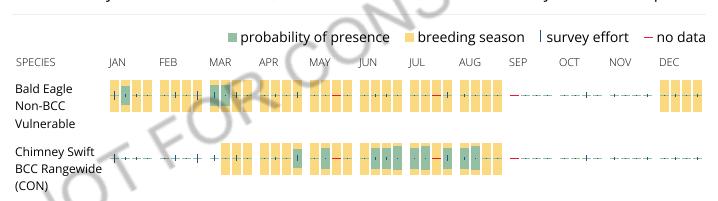
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Migratory Bird FAQs

Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Avoidance & Minimization Measures for Birds describes measures that can help avoid and minimize impacts to all birds at any location year-round. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is one of the most effective ways to minimize impacts. To see when birds are most likely to occur and breed in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location, such as those listed under the Endangered Species Act or the <u>Bald and Golden Eagle Protection Act</u> and those species marked as "Vulnerable". See the FAQ "What are the levels of concern for migratory birds?" for more information on the levels of concern covered in the IPaC migratory bird species list.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) with which your project intersects. These species have been identified as warranting special attention because they are BCC species in that area, an eagle (<u>Bald and Golden Eagle Protection Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, and to verify survey effort when no results present, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

Why are subspecies showing up on my list?

Subspecies profiles are included on the list of species present in your project area because observations in the AKN for **the species** are being detected. If the species are present, that means that the subspecies may also be present. If a subspecies shows up on your list, you may need to rely on other resources to determine if that subspecies may be present (e.g. your local FWS field office, state surveys, your own surveys).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the RAIL Tool and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Bald and Golden Eagle Protection Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially BCC species. For more information on avoidance and minimization measures you can implement to help avoid and minimize migratory bird impacts, please see the FAQ "Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.</u>

Proper interpretation and use of your migratory bird report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list does not represent all birds present in your project area. It is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide implementation of avoidance and minimization measures to eliminate or reduce potential impacts from your project activities, should presence be confirmed. To learn more about avoidance and minimization measures, visit the FAQ "Tell me about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

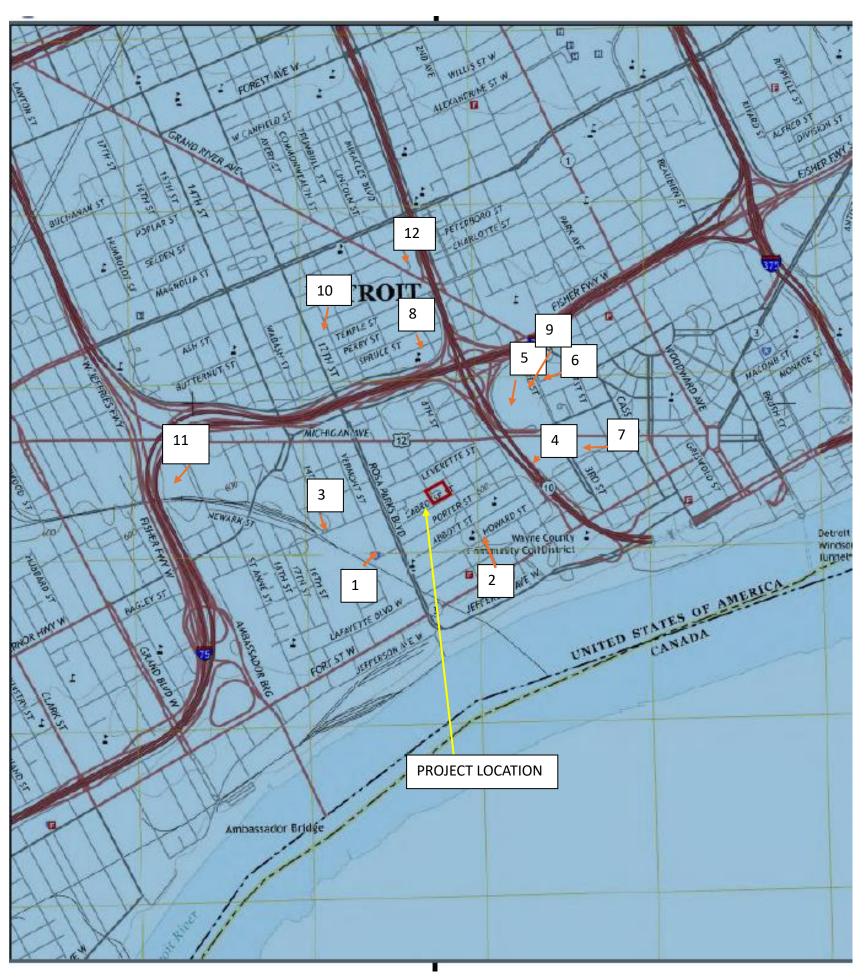
Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies.

Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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building were presumed to be ACMs. These ACMs should be removed by a licensed contractor in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAP).



	1	1	1	1	1	
<u>ID</u>	Property Name	<u>Address</u>	Size (gal)	Contents	<u>Distance</u> (ft)	ASD (ft)
1	Level 3 Communications	1965 Porter	8,000	Diesel	675	657
2	Windstream PAETEC Pop-LC	1686 Howard	2,100	Diesel	750	376
3	US Postal Service	1770 14 th Street	10,000	Diesel	1,050	721
4	Detroit Public Safety Headquarters	1300 John C Lodge	N/A	FL/CL	1,800	N/A
5	MGM Grand Detroit Casino and Hotel	1777 3rd	Two 6,500	Diesel	2,400	603
6	DTE HQ- Executive Garage	1 Energy	6,000	Diesel	2,475	583
7	Sprint Detroit Switch	1320 3rd	7,000	Diesel	2,400	622
8	Brinks	1351 Spruce	8,000	Diesel	2,500	657
9	DTE Energy Headquarters	2000 2nd	Four 1,650	Deisel	2,800	340
10	Total Armored Car Service	2950 Rosa Parks	1,000	FL/CL	3,750	276
11	United Community Hospital	2401 20th	4,000	Diesel	3,750	492
12	Noble Street Complex- MICHCON	3200 Hobson	13,500	Other	4,500	817

Acceptable Separation Distance (ASD) Electronic Assessment Tool

The Environmental Planning Division (EPD) has developed an electronic-based assessment tool that calculates the Acceptable Separation Distance (ASD) from stationary hazards. The ASD is the distance from above ground stationary containerized hazards of an explosive or fire prone nature, to where a HUD assisted project can be located. The ASD is consistent with the Department's standards of blast overpressure (0.5 psi-buildings) and thermal radiation (450 BTU/ft² - hr - people and 10,000 BTU/ft² - hr - buildings). Calculation of the ASD is the first step to assess site suitability for proposed HUD-assisted projects near stationary hazards. Additional guidance on ASDs is available in the Department's guidebook "Siting of HUD- Assisted Projects Near Hazardous Facilities" and the regulation 24 CFR Part 51, Subpart C, Sitting of HUD-Assisted Projects Near Hazardous Operations Handling Conventional Fuels or Chemicals of an Explosive or Flammable Nature.

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

Is the container above ground?	Yes: ✓ No: □
Is the container under pressure?	Yes: ☐ No: ✓
Does the container hold a cryogenic liquified gas?	Yes: No:
Is the container diked?	Yes: ☐ No: ✓
What is the volume (gal) of the container?	8000
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDBOP)	

, as for since over the same (1855)	
ASD for Thermal Radiation for People (ASDPPU)	657.70
ASD for Thermal Radiation for Buildings (ASDBPU)	131.49
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

Providing Feedback & Corrections

After using the ASD Assessment Tool following the directions in this User Guide, users are encouraged to provide feedback on how the ASD Assessment Tool may be improved. Users are also encouraged to send comments or corrections for the improvement of the tool.

Please send comments or other input using the **Contact Us** (https://www.hudexchange.info/contact-us/) form.

- ASD User Guide (/resource/3839/acceptable-separation-distance-asd-assessment-tooluser-guide/)
- ASD Flow Chart (/resource/3840/acceptable-separation-distance-asd-flowchart/)

Acceptable Separation Distance (ASD) Electronic Assessment Tool

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Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

Is the container above ground?	Yes: ☑ No: □
Is the container under pressure?	Yes: ☐ No: ☑
Does the container hold a cryogenic liquified gas?	Yes: No:
Is the container diked?	Yes: ☐ No: ☑
What is the volume (gal) of the container?	7000
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDBOP)	

, as for since over the same (1855)	
ASD for Thermal Radiation for People (ASDPPU)	622.11
ASD for Thermal Radiation for Buildings (ASDBPU)	123.62
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

Providing Feedback & Corrections

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Is the container above ground?	Yes: ☑ No: □
Is the container under pressure?	Yes: ☐ No: ✓
Does the container hold a cryogenic liquified gas?	Yes: No:
Is the container diked?	Yes: ☐ No: ✓
What is the volume (gal) of the container?	6500
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDBOP)	

, 65 161 51650 6 VCI 1 1 C5561 C (165561)	
ASD for Thermal Radiation for People (ASDPPU)	603.20
ASD for Thermal Radiation for Buildings (ASDBPU)	119.46
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

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Is the container above ground?	Yes: ☑ No: □
Is the container under pressure?	Yes: No: 🗹
Does the container hold a cryogenic liquified gas?	Yes: No:
Is the container diked?	Yes: ☐ No: ☑
What is the volume (gal) of the container?	10000
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDBOP)	

, as for since over the same (1855)	
ASD for Thermal Radiation for People (ASDPPU)	721.77
ASD for Thermal Radiation for Buildings (ASDBPU)	145.78
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

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Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

Is the container above ground?	Yes: ✓ No: □
Is the container under pressure?	Yes: ☐ No: ✓
Does the container hold a cryogenic liquified gas?	Yes: No:
Is the container diked?	Yes: ☐ No: ✓
What is the volume (gal) of the container?	2100
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDROP)	

7.55 101 51656 6 VCI 1 165561 6 V 155561 7	
ASD for Thermal Radiation for People (ASDPPU)	376.74
ASD for Thermal Radiation for Buildings (ASDBPU)	70.85
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

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Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

Is the container above ground?	Yes: ✓ No: □
Is the container under pressure?	Yes: ☐ No: ☑
Does the container hold a cryogenic liquified gas?	Yes: No:
Is the container diked?	Yes: 🗆 No: 🔽
What is the volume (gal) of the container?	8000
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDBOP)	

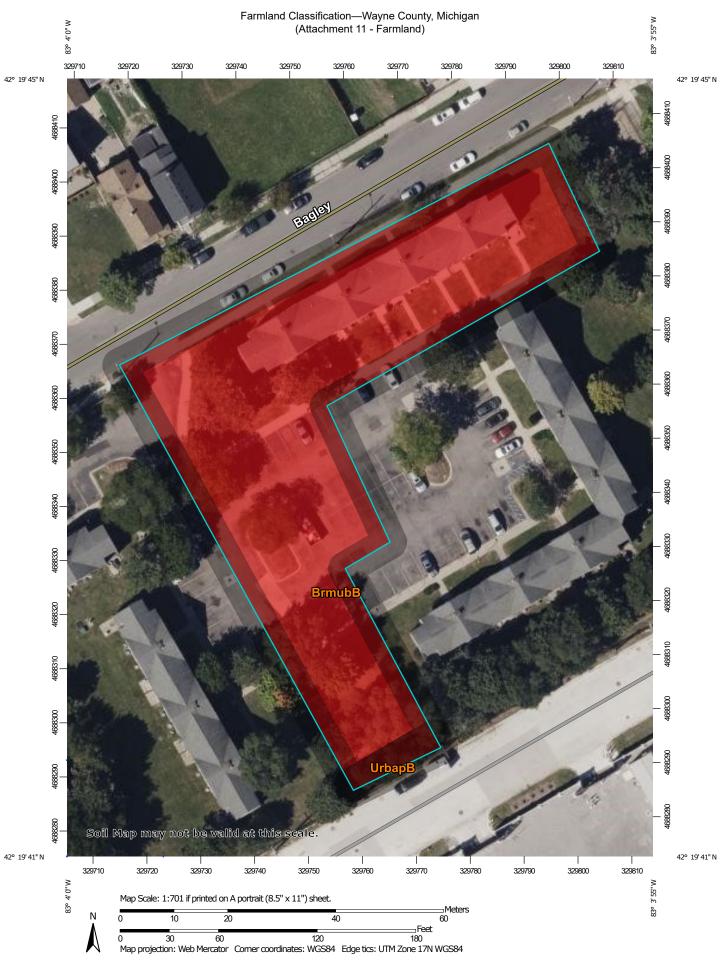
7.55 Tot Blast 6 Vol 1 (6554) 6 (7.5556)	
ASD for Thermal Radiation for People (ASDPPU)	657.70
ASD for Thermal Radiation for Buildings (ASDBPU)	131.49
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

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Farmland Classification—Wayne County, Michigan (Attachment 11 - Farmland)

pt pt	Prime farmland if subsoiled, completely removing the root inhibiting soil layer	~	Farmland of statewide importance, if drained and either protected from flooding or not frequently	~	Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium	~	Farmland of unique importance Not rated or not available		Prime farmland if subsoiled, completely removing the root inhibiting soil layer
~	Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60	~	flooded during the growing season Farmland of statewide importance, if irrigated and drained	-	Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the	Soil Rat	ting Points Not prime farmland All areas are prime farmland	•	Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
~ ~ ~ ~	factor) does not exceed	~	importance, if irrigated	~ ~ ~ ~	flooding or not frequently				(climate factor) does not

Farmland Classification—Wayne County, Michigan (Attachment 11 - Farmland)

- Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
 - Farmland of statewide importance, if irrigated and drained
- Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
- Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60

- Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough
- Farmland of statewide importance, if thawed
- Farmland of local importance
- Farmland of local importance, if irrigated

- Farmland of unique importance
- Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

04

Aerial Photography

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Wayne County, Michigan Survey Area Data: Version 10, Aug 28, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 8, 2022—Oct 4, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI	
BrmubB	Brems-Urban land complex, dense substratum, 0 to 4 percent slopes	Not prime farmland	0.9	99.1%	
UrbapB	Urban land-Fortress family complex, dense substratum, 0 to 4 percent slopes	Not prime farmland	0.0	0.9%	
Totals for Area of Intere	est		0.9	100.0%	

Description

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

Rating Options

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

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Is the container above ground?	Yes: ☑ No: □
Is the container under pressure?	Yes: ☐ No: ✓
Does the container hold a cryogenic liquified gas?	Yes: No:
Is the container diked?	Yes: ☐ No: ✓
What is the volume (gal) of the container?	13500
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDBOP)	

ASS TOT STASE OVER THESSAIG (ASS SOL)	
ASD for Thermal Radiation for People (ASDPPU)	817.89
ASD for Thermal Radiation for Buildings (ASDBPU)	167.48
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

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Is the container above ground?	Yes: ✓ No: □
Is the container under pressure?	Yes: 🗆 No: 🗹
Does the container hold a cryogenic liquified gas?	Yes: No:
Is the container diked?	Yes: 🗆 No: 🗹
What is the volume (gal) of the container?	4000
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Blast Over Pressure (ASDROP)	

, as for slast over the state (1855 or)	
ASD for Thermal Radiation for People (ASDPPU)	492.74
ASD for Thermal Radiation for Buildings (ASDBPU)	95.44
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

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Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

Is the container above ground?	Yes: ✓ No: □
Is the container under pressure?	Yes: ☐ No: ☑
Does the container hold a cryogenic liquified gas?	Yes: No:
Is the container diked?	Yes: ☐ No: ☑
What is the volume (gal) of the container?	1000
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Rlast Over Pressure (ASDROP)	

, 65 101 Blade 6 (C) 1 (655 61)	
ASD for Thermal Radiation for People (ASDPPU)	276.57
ASD for Thermal Radiation for Buildings (ASDBPU)	50.28
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

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Is the container above ground?	Yes: ✓ No: □
Is the container under pressure?	Yes: ☐ No: ✓
Does the container hold a cryogenic liquified gas?	Yes: No:
Is the container diked?	Yes: ☐ No: ✓
What is the volume (gal) of the container?	1650
What is the Diked Area Length (ft)?	
What is the Diked Area Width (ft)?	
Calculate Acceptable Separation Distance	
Diked Area (sqft)	
ASD for Rlast Over Pressure (ASDROP)	

7.55 101 51650 5761 1 165561 6 7.555501 7	
ASD for Thermal Radiation for People (ASDPPU)	340.72
ASD for Thermal Radiation for Buildings (ASDBPU)	63.38
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

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GRETCHEN WHITMER

STATE OF MICHIGAN MICHIGAN STRATEGIC FUND STATE HISTORIC PRESERVATION OFFICE

QUENTIN L. MESSER, JR. PRESIDENT

October 17, 2024

MARY WEIDEL
FIELD ENVIRONMENTAL OFFICER REGION V
US DEPT OF HOUSING AND URBAN DEVELOPMENT
477 MICHIGAN AVENUE 16TH FLOOR
DETROIT MI 48226

RE: ER24-986 Proposed "Bagley Townhouses and Flats on 10th Street",

Clement Kerns Gardens, 1661 Bagley Street, Detroit, Wayne County (HUD)

Dear Mary Weidel:

Under the authority of Section 106 of the National Historic Preservation Act of 1966, as amended (NHPA), the State Historic Preservation Office has reviewed the above-cited undertaking at the location noted above. Although the material we received did not mention it, this project is related to another proposed undertaking with the Housing Resources Department for the City of Detroit (HRD), the Clement Kerns Gardens Project, SHPO project, **ER96-1.23.1811-1795 Bagley**.

Our review of the current undertaking included the *Application for SHPO Section 106 Consultation* and accompanying material compiled by AEI Consultants (AEI), 2024. The application was not fully completed, as the Federal Agency and Federal Agency Contact were not included, nor was the Township, Range, and Section (TRS) data requested. The material submitted does not contain mapping to indicate where in Michigan the project area is located, nor does it indicate where the project is in relation to the rest of the city. There are also several editorial issues with the material submitted.

The issues listed above (incomplete application, no TRS data, insufficient mapping, and editorial issues) were also problematic for another AEI submission we received in April 2024 for a proposed HUD undertaking in Ottawa County (SHPO project ER24-483). In the future, this office will request additional information if we do not receive adequate information.

In addition to the issues noted above, the submission for the current undertaking does not include a satisfactory consideration of below-ground resources and the *Archaeology* portion of the application was not completed. It does not appear that AEI submitted a research request to this office in advance of their archaeological assessment of the project. Subsequently, the assessment does not consider previously identified archaeological sites nearby and the archaeological sensitivity of the Corktown neighborhood.

For the related Clement Kerns Gardens project (ER96-1.23.1811-1795 Bagley) HRD consulted with Benjamin Rodd, former Tribal Historic Preservation Officer (THPO) for the Forest County Potawatomi Community. THPO Rodd requested archaeological monitoring of all ground disturbances related to the Clement Kerns Gardens project (demolition, clearing, and construction).

Therefore, it is the opinion of the State Historic Preservation Officer that the proposed undertaking will have <u>no adverse effect</u> [36 CFR § 800.5(b)] on historic properties within the APE for the above-cited undertaking <u>provided the following conditions are met:</u>

Archaeological Monitoring

Archaeological construction monitoring is needed during ground-disturbing activities in the APE due to the potential for archaeological sites and possibly inadvertent discoveries. Please ensure that the following conditions are met:

- Archaeological monitoring is needed during ground disturbing activities (demolition, clearing, and construction). Monitoring must be conducted by professional archaeologists who meet the Secretary of the Interior's Professional Qualifications Standards (36 CFR Part 61). Any archaeological resources identified during monitoring must be evaluated and impacts to resources eligible for the National Register of Historic Places must be avoided, minimized, or mitigated. Monitoring results must be reported to this office.
- We <u>strongly recommend</u> that the archaeologists contracted to conduct monitoring of the project have demonstrated experience working within the City of Detroit.

Unanticipated Discoveries Plan

An Unanticipated Discoveries Plan (UDP) is needed prior to project-related activities due to the potential for previously undocumented archaeological sites and inadvertent discoveries within the APE. The UDP is intended to serve as a guide if archaeological material or human remains are encountered during project work. The conditions outlined in the UDP should be observed by the agency, archaeologists, project managers, those working on construction activities, heavy equipment operators, planners/designers, and consulting parties. Please ensure that the following conditions are met prior to any project-related activities:

• Given the possibility for the inadvertent discovery of human remains and archaeological sites during proposed construction activities, the SHPO requests development of an Unanticipated Discoveries Plan (UDP) prior to project related activities and archaeological monitoring.

For your convenience, we have enclosed a copy of an *Unanticipated Discoveries Plan* template to aid the creation of a UDP for your project. This template can be catered for your project. To use, address the highlighted texts found throughout the template. Once all the highlighted areas are addressed, convert the document to a PDF. Please discuss the document with, and provide a completed copy to, archaeologists contracted to monitor, project managers, those working on construction activities, heavy equipment operators, planners/designers.

If you concur, the accompanying Acceptance Letter must be signed by an agency official with legal authority to act on behalf of the agency [36 CFR § 800.2(a)]. Please return the signed original to us. Please note that the Section 106 review process will not be complete and HUD's responsibility to comply with 36 CFR § 800.4, "Identification of historic properties," and 36 CFR § 800.5, "Assessment of adverse effects," will not be fulfilled until we have received this letter with the original signature of the agency

official. If the agency official disagrees with the conditions outlined above, then consultation with this office shall be reopened per 36 CFR § 800.5(a).

Any subsequent project-related material (e.g., Acceptance Letter and monitoring summary) can be submitted online through our <u>Additional Information Portal</u>.

The NHPA requires federal agencies to consult with any Native American Tribe and/or Tribal Historic Preservation Officers (THPO) who attach religious or cultural significance to historic properties that may be affected by the agency's undertakings per 36 CFR § 800.2(c)(2)(ii). Additionally, THPOs may have a different or more nuanced understanding of the APE than the State Historic Preservation Office.

Archaeological site data is confidential, including location, character, and ownership. Please take the appropriate steps to ensure that archaeological site information remains confidential. To the extent consistent with NHPA Section 304 (54 U.S.C. § 300310), and the Archaeological Resources Protection Act of 1979, as amended (ARPA), Section 9(a), cultural resource data related to proposed undertakings should be treated as confidential. Any sensitivity concerns expressed about properties with cultural significance for Tribes should be respected and should remain confidential to the fullest extent permitted by law. Archaeological site information should not be shared or disseminated. This includes restricting access and/or redacting archaeological data from websites and environmental documents.

If the scope of work changes in any way, please notify this office immediately. In the unlikely event that human remains, or archaeological material are encountered during construction activities related to the above-cited undertaking, work must be halted, and the Michigan SHPO and other appropriate authorities must be contacted immediately, as outlined in the UDP for the project.

If you have any questions, please contact Amy Krull, Federal Projects Archaeologist at (517) 285-4211 or via email at krulla@michigan.gov. Please reference our project number in all communication with this office regarding this undertaking. Thank you.

Sincerely,

Ryan Schumaker

State Historic Preservation Officer

RMS:KMBY:AK

Copy: Olivia Nunway, THPO Forest County Potawatomi Community

Tiffany Ciavattone, HRD Samuel Burns, HRD

Kimberly Dickens, AEI Consultants

Jared Rice, Berkadia Commercial Mortgage, LLC

Coleman A. Young Municipal Center 2 Woodward Avenue. Suite 908 Detroit, Michigan 48226 Phone: 313.224.6380 Fax: 313.224.1629 www.detroitmi.gov

March 4, 2024

Penny Dwoinen
City of Detroit Housing & Revitalization Department
Coleman A. Young Municipal Center
2 Woodward Avenue, Suite 908
Detroit, MI 48226

RE: Section 106 Review of a CNI Funded Project Located at 1511–1795 Bagley Street in the City of Detroit, Wayne County, Michigan

Dear Mrs. Dwoinen,

In accordance with Section 106 of the National Historic Preservation Act and its implementing regulations, 36 CFR Part 800, I am providing a determination of historic eligibility regarding the above-referenced project under the authority of the "Programmatic Agreement between the Michigan State Historic Preservation Office and the City of Detroit, Michigan...," dated December 21, 2022.

The proposed project seeks to demolish an extant 87-unit apartment complex and construct a new 370-unit apartment complex with a mix of unit types through multiple phases of construction. The proposed project is to occur across 9-acres where the existing Clement Kern Gardens located at 1601 Bagley Street, Detroit, Wayne County, Michigan 48216 (Subject Property) and is located in Detroit's Corktown neighborhood.

The direct APE consists solely of the site located at 1511–1795 Bagley Street, Parcel ID: 08000246-346, Detroit, Michigan 48216. The National Register of Historic Places Listed Corktown Local Historic District is located in the indirect area of potential effect. Therefore, the project must follow the Secretary of the Interior's Standards for the Treatment of Historic Properties.

The extant buildings at the Subject Property were constructed in 1984, which is less than 50 years of age, and the new construction will not adversely affect the Corktown Historic District. The proposed new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old. The new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

Per Stipulation VI of Programmatic Agreement (PA), the proposed undertaking qualified for review by SHPO's archaeologist. Archaeological resources review for the proposed project was compiled by Commonwealth Heritage Group in June 2023 (Burns 2023). As a result of their research, Commonwealth recommended Phase I survey within the Project Area in areas where Project related ground disturbing activity may potentially occur in the open green spaces or paved

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parking lots identified by Burns (2023). The archaeological resource APE encompasses approximately 3.4-acres of the entire 9-acre site.

Commonwealth completed a Phase I archaeological survey of the APE on August 8 and 18, 2023. A total of 43 STPs were excavated across 15 transects. Extensive disturbance was noted in all STPs. During the survey, non-diagnostic historic period artifacts were observed mixed with modern items (plastic and concrete) in STPs excavated across the APE. The non-diagnostic historic period artifacts consisted primarily of architectural debris (brick, window glass, nails, ceramic sewer pipe) associated with the demolition of structures during the 1950s/1960s. Some domestic-related artifacts were also mixed in with the demolition debris, including non-diagnostic ceramics, vessel glass, and faunal bone. No subsurface evidence of intact structural remnants or other cultural features were observed in the APE during the survey. No new archaeological sites were identified as a result of the Phase I survey.

It was the opinion of Commonwealth that the project, if restricted to the designated APE as planned, will have no effect on archaeological resources listed in or eligible for listing in the NRHP. Because no archaeological resources were previously identified in the APE and no resources were identified as a result of survey, Commonwealth recommended no further archaeological investigation in the APE if the Project's ground disturbing activity stays within the planned APE boundaries. In a letter dated, 12/4/2023, SHPO's archaeologist concurred with the recommendation of "No Historic Properties Affected" for archaeological resources.

Per Stipulation VI of Programmatic Agreement (PA), the proposed undertaking requires consultation with Tribes. On 11/1/2023, a request for Tribal Consultation was submitted to the following Tribes:

Bay Mills Indian Community

Forest County Potawatomi Community of Wisconsin

Grand Traverse Band of Ottawa & Chippewa Indians

Hannahville Indian Community

Ketegitigaaning Ojibwe Nation/Lac Vieux Desert Band of Lake Superior Chippewa Indians

Keweenaw Bay Indian Community of the Lake Superior Band of Chippewa Indians

Lac du Flambeau Band of Lake Superior Chippewa Indians

Little River Band of Ottawa Indians

Little Traverse Bay Bands of Odawa Indians

Menominee Indian Tribe of Wisconsin

Match-E-Be-Nash-She-Wish (Gun Lake) Band of Pottawatomi Indians

Miami Tribe of Oklahoma

Michigan Anishinaabek Cultural Preservation and Repatriation Alliance

Nottawaseppi Huron Band of the Potawatomi

Pokagon Band of Potawatomi Indians, Michigan and Indiana

Saginaw Chippewa Indian Tribe of Michigan

Sault Ste. Marie Tribe of Chippewa Indians

Seneca Cayuga Nation



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The Forest County Potawatomi Community Tribal Historic Preservation Officer made a request for archaeological monitoring of the site due to the prevalence of Potawatomi villages and fisheries along the Detroit River and the depth of excavation proposed, which could disturb previously undisturbed sub-surface resources.

This project requires more information in order to continue consultation with the Forest County Potawatomi regarding their request for archaeological monitoring. Please provide the proposed plans for contamination mitigation in order to fully evaluate the ground disturbance planned for each phase of development, as they were not included in the Section 106 application. Additional information regarding the proposed Response Activity Plans was requested via e-mail on 2/6/2024. At this time, the full extent of ground disturbance is not yet known.

Please note that the Section 106 Review process will not be complete until the above-mentioned conditions are met. If you have any questions, you may direct them to the Preservation Specialist at <u>Ciavattonet@detroitmi.gov</u>.

Sincerely,

Tiffany Ciavattone Preservation Specialist

City of Detroit

Housing & Revitalization Department

Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > Day/Night Noise Level (DNL) Calculator

Day/Night Noise Level (DNL) Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/).

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

Site ID	Clement	s Kern Garder	าร	
Record Date	02/10/2	025		
User's Name	SES			
Г				
Road # 1 Name:	Michiga	n Avenue		
Road #1				
Vehicle Type	Cars	2	Medium Trucks 🗸	Heavy Trucks 🗸
Effective Distance	714		714	714
Distance to Stop Sign				
Average Speed	35		35	35
Average Daily Trips (AD	T) 1249	94	543	543
Night Fraction of ADT	15		15	15
Road Gradient (%)				2
Vehicle DNL	47		44	54
Calculate Road #1 DNI	- 55		Reset	
Railroad #1 Track Idei	ntifier:	Penn and \	Vester	
Rail # 1				

Effective Distance			2600	
Average Train Speed			10	
Engines per Train			2	
Railway cars per Train			50	
Average Train Operations (ATO)			20	
Night Fraction of ATO			50	
Railway whistles or horns?	Yes:	No:	`	∕es: ☐ No: ☑
Bolted Tracks?	Yes:	No:	`	∕es: ☐ No: ✓
Train DNL	0		54	
Calculate Rail #1 DNL	54		Reset	
Add Road Source Add Rail Source	2			
Airport Noise Level				
Loud Impulse Sounds?		○Yes ○No		
Combined DNL for all Road and Rail sources		58		
Combined DNL including Airport		N/A		
Site DNL with Loud Impulse Sound				
Calculate Reset				

Mitigation Options

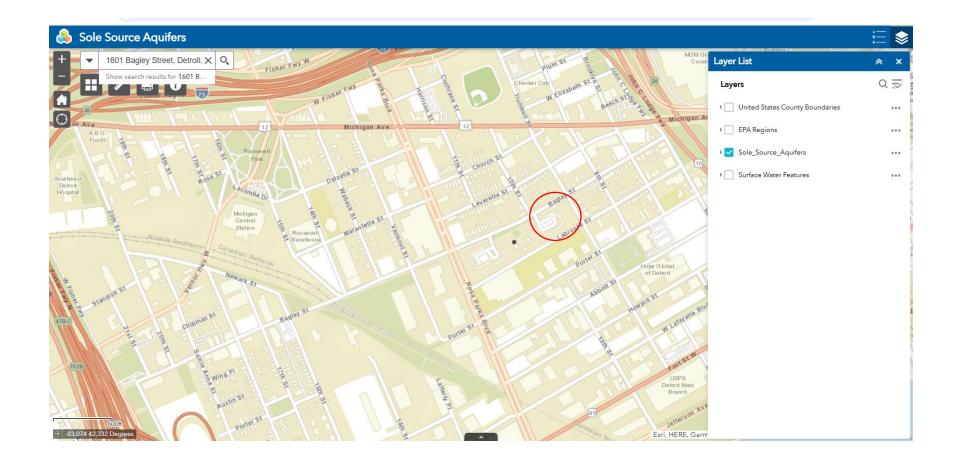
If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative**: Cancel the project at this location
- Other Reasonable Alternatives: Choose an alternate site
- Mitigation
 - Contact your Field or Regional Environmental Officer (/programs/environmentalreview/hud-environmental-staff-contacts/)
 - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
 - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
 - Incorporate natural or man-made barriers. See *The Noise Guidebook* (/resource/313/hud-noise-guidebook/)
 - Construct noise barrier. See the Barrier Performance Module (/programs/environmental-review/bpm-calculator/)

Tools and Guidance

Day/Night Noise Level Assessment Tool User Guide (/resource/3822/day-night-noise-level-assessment-tool-user-guide/)

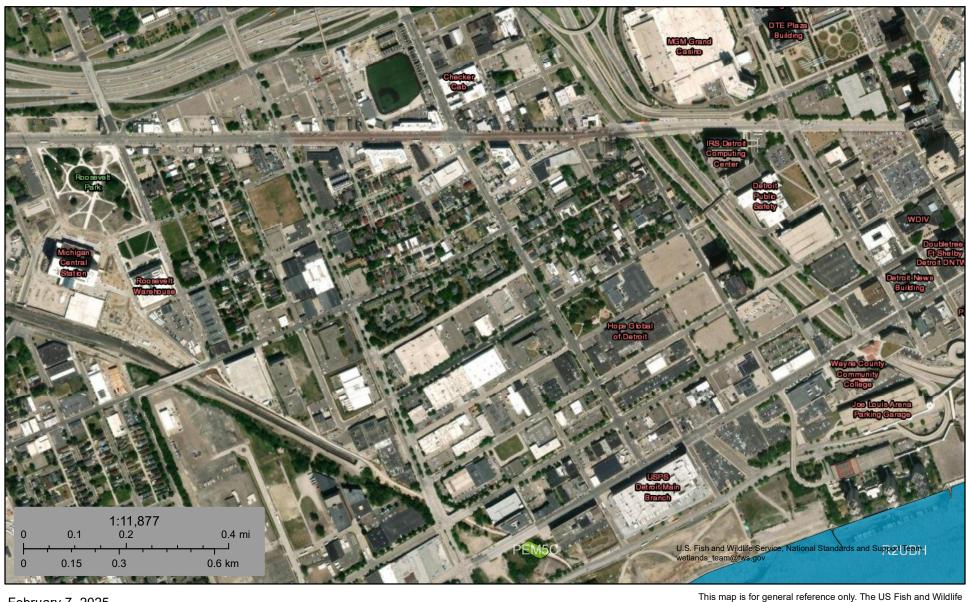
Day/Night Noise Level Assessment Tool Flowcharts (/resource/3823/day-night-noise-level-assessment-tool-flowcharts/)



U.S. Fish and Wildlife Service

National Wetlands Inventory

Attachment 16- Wetlands



February 7, 2025

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

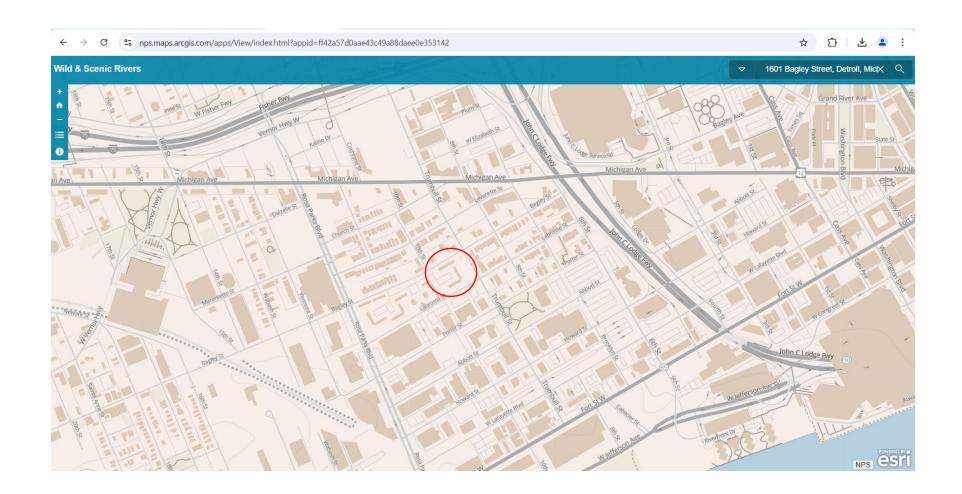
Freshwater Pond

Lake

Riverine

Other

Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.





EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Detroit, MI

1 mile Ring Centered at 42.375175,-82.957935 Population: 7,662 Area in square miles: 3.14

Dynamic map initially showing the user-selected area

COMMUNITY INFORMATION

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	98%
Spanish	1%
Total Non-English	2%

Limited English Less than high People of color: school education: households: 86 percent 15 percent 1 percent Persons with Unemployment: Male: Female: disabilities: 47 percent 11 percent 53 percent 18 percent N/A 74 years Owner Average life Per capita households: occupied: expectancy income 46 percent 3.131

BREAKDOWN BY RACE



Islander: 0%









Hispanic: 3%

BREAKDOWN BY AGE

From Ages 1 to 4	7%
From Ages 1 to 18	31%
From Ages 18 and up	69%
From Ages 65 and up	14%

LIMITED ENGLISH SPEAKING BREAKDOWN

S	peak Spanish	22%
S	peak Other Indo-European Languages	42%
S	peak Asian-Pacific Island Languages	36%
S	peak Other Languages	0%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2018-2022. Life expectancy data comes from the Centers for Disease Control.

Report for 1 mile Ring Centered at 42.375175,-82.957935 Report produced December 20, 2024 using EJScreen Version 2.3

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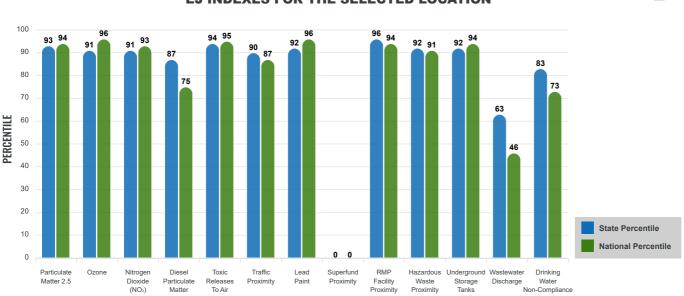
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

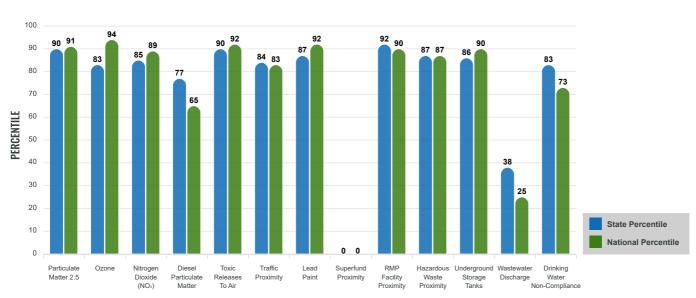
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low income, percent persons with disabilities, percent less than high school education, percent limited English speaking, and percent low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



Report for 1 mile Ring Centered at 42.375175,-82.957935 Report produced December 20, 2024 using EJScreen Version 2.3

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
ENVIRONMENTAL BURDEN INDICATORS					
Particulate Matter 2.5 (µg/m³)	9.01	7.84	78	8.45	75
Ozone (ppb)	68.8	67.3	58	61.8	82
Nitrogen Dioxide (NO ₂) (ppbv)	10	7.7	70	7.8	75
Diesel Particulate Matter (µg/m³)	0.128	0.116	56	0.191	39
Toxic Releases to Air (toxicity-weighted concentration)	3,100	2,500	82	4,600	79
Traffic Proximity (daily traffic count/distance to road)	1,200,000	910,000	69	1,700,000	59
Lead Paint (% Pre-1960 Housing)	0.63	0.38	75	0.3	82
Superfund Proximity (site count/km distance)	0	0.28	0	0.39	0
RMP Facility Proximity (facility count/km distance)	0.97	0.38	86	0.57	80
Hazardous Waste Proximity (facility count/km distance)	3.1	2	72	3.5	68
Underground Storage Tanks (count/km²)	21	7.6	88	3.6	96
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.11	880	21	700000	15
Drinking Water Non-Compliance (points)	0.65	0.39	87	2.2	76
SOCIOECONOMIC INDICATORS					
Demographic Index USA	2.82	N/A	N/A	1.34	93
Supplemental Demographic Index USA	2.33	N/A	N/A	1.64	85
Demographic Index State	2.98	1.18	94	N/A	N/A
Supplemental Demographic Index State	2.25	1.5	86	N/A	N/A
People of Color	86%	26%	92	40%	86
Low Income	62%	31%	89	30%	90
Unemployment Rate	11%	6%	83	6%	85
Limited English Speaking Households	0%	2%	73	5%	57
Less Than High School Education	15%	9%	83	11%	73
Under Age 5	7%	5%	73	5%	69
Over Age 64	14%	18%	37	18%	42

*Diesel particulate matter index is from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the Air Toxics Data update can be found at: <a href="https://pix/bushpai/air-toxics-data-updates-data-upd

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	
Water Dischargers	1
Air Pollution	8
Brownfields	15
Toxic Release Inventory	8

Selected location contains American Indian Reservation Lands* No Selected location contains a "Justice40 (CEJST)" disadvantaged community Yes Selected location contains an EPA IRA disadvantaged community Yes

Report for 1 mile Ring Centered at 42.375175,-82.957935 Report produced December 20, 2024 using EJScreen Version 2.3

Other community features within defined area:

ospitals	(:	itals	nsni [.]	Hos
laces of Worship																		

Other environmental data:

ir Non-attainment	Yes
mnaired Waters	Yes

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS											
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE						
Low Life Expectancy	24%	20%	85	20%	88						
Heart Disease	8	6.3	86	5.8	88						
Asthma	14.7	11.4	93	10.3	99						
Cancer	5.9	7	21	6.4	36						
Persons with Disabilities	18.4%	14.9%	75	13.7%	79						

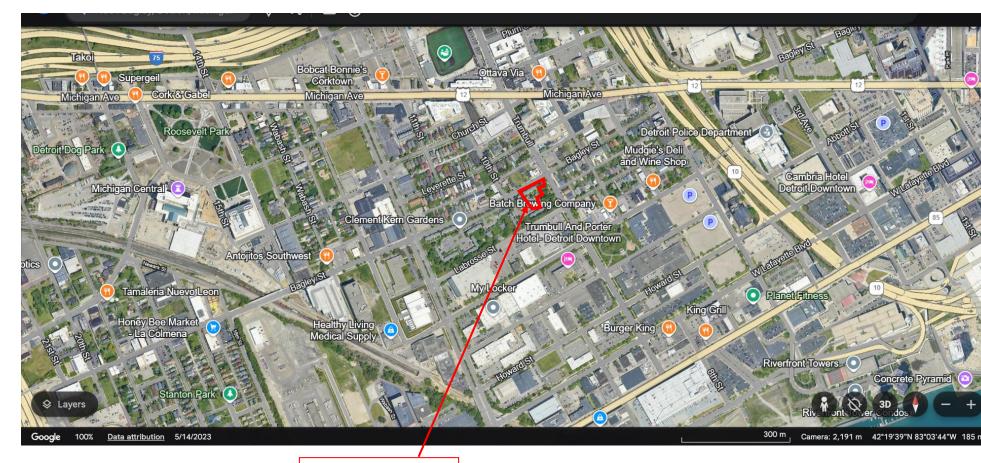
		CLIN	MATE INDICATORS		
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	46%	7%	98	12%	95
Wildfire Risk	0%	0%	0	14%	0

	CRITICAL SERVICE GAPS											
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE							
Broadband Internet	15%	13%	67	13%	67							
Lack of Health Insurance	6%	5%	60	9%	41							
Housing Burden	Yes	N/A	N/A	N/A	N/A							
Transportation Access Burden	Yes	N/A	N/A	N/A	N/A							
Food Desert	Yes	N/A	N/A	N/A	N/A							

Report for 1 mile Ring Centered at 42.375175,-82.957935 Report produced December 20, 2024 using EJScreen Version 2.3

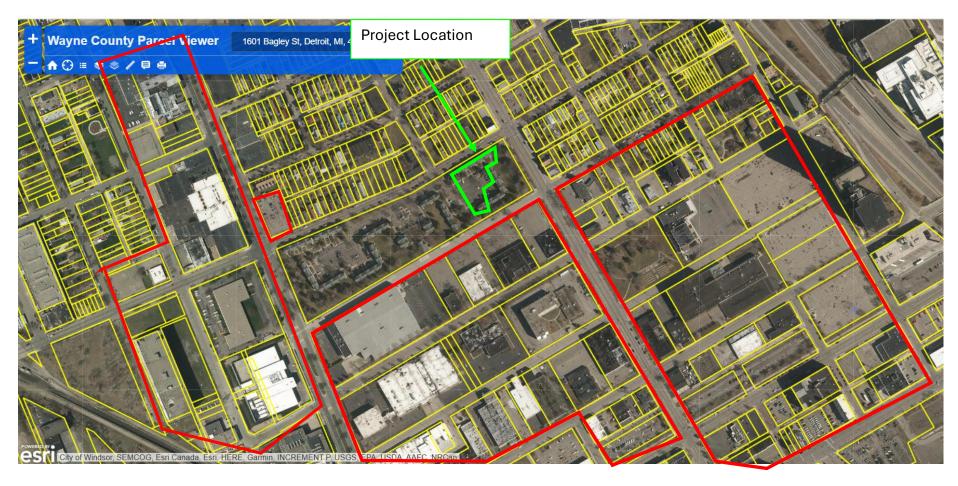
www.epa.gov/ejscreen

Map Depicting Project Location and Nearby Commercial Properties

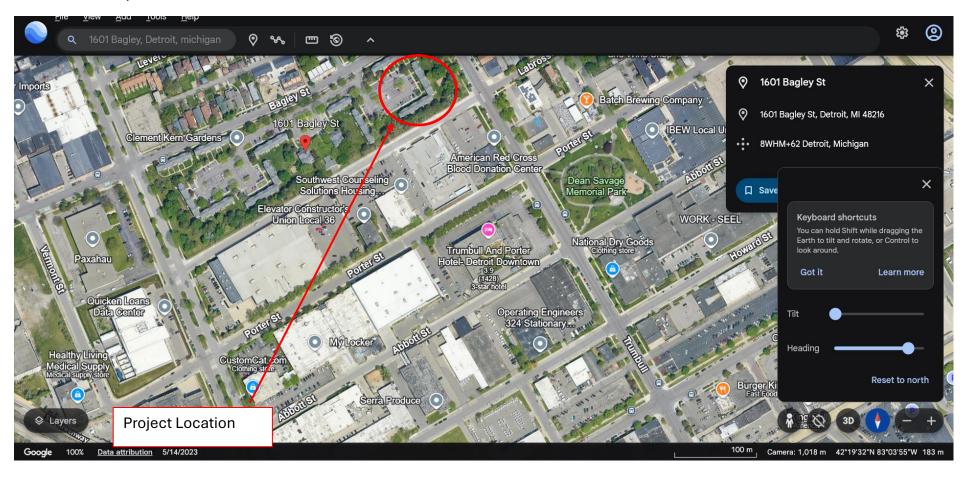


Project Location

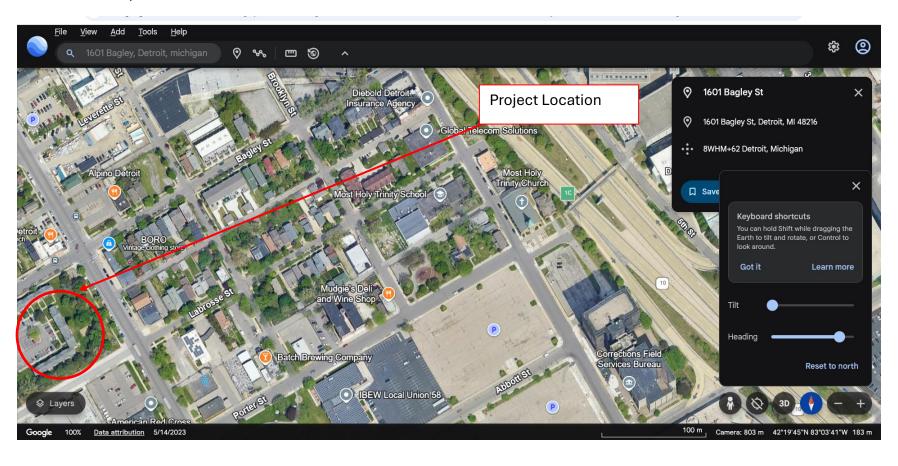
Commercial Properties Aurroinding Project Location



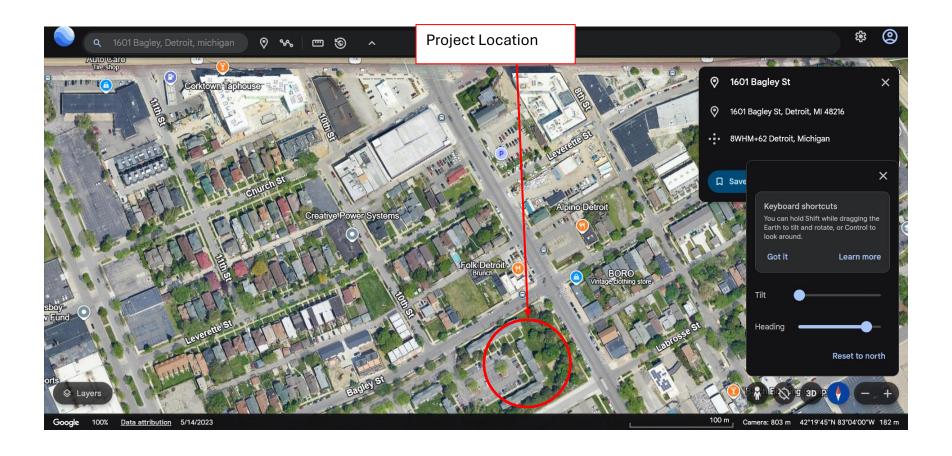
Commercial Properties to South



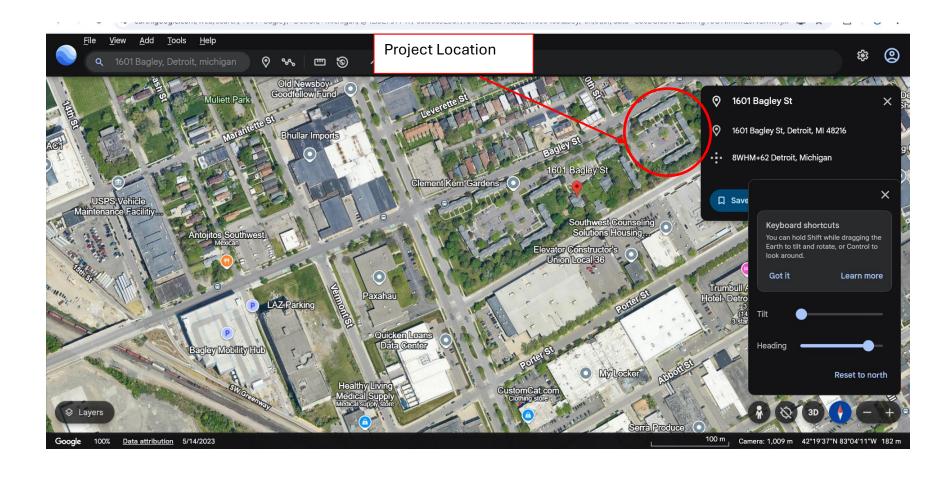
Commercial Properties to East



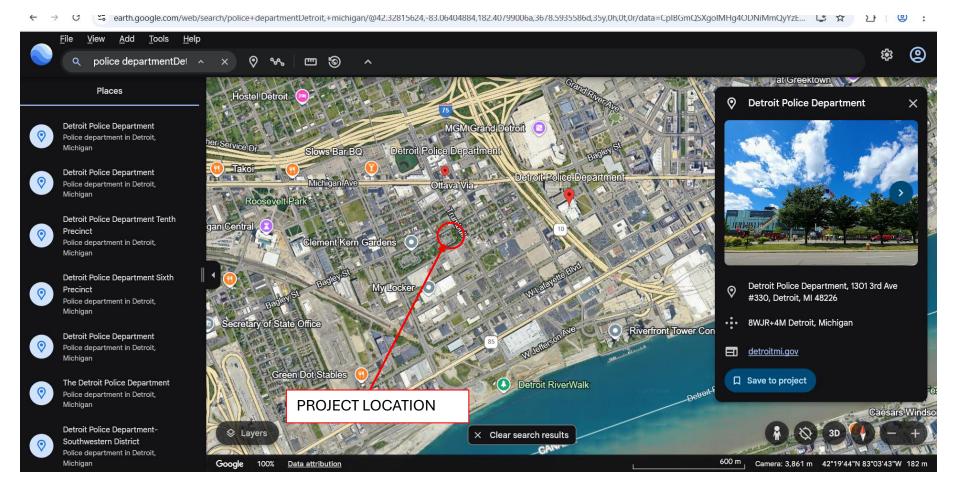
Commercial Properties to North



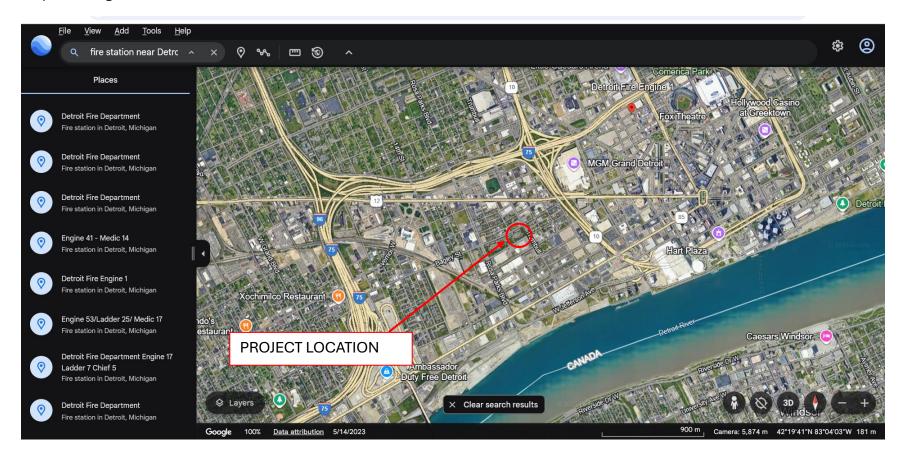
Commercial Properties to West



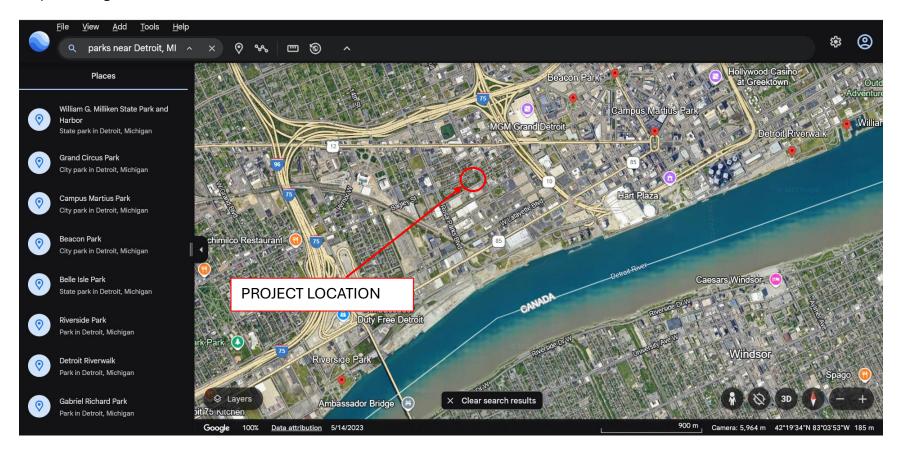
Map Showing City of Detroit Police Office Locations



Map Showing Local Fire Station Location



Map Showing Parks



Map Showing Social and Health Services

