

**City of Muskegon
Brownfield Redevelopment Authority**

**Amendment to Brownfield Plan Amendment for the
Adelaide Pointe Project at
1204 West Western Avenue
Muskegon, Michigan**

Initial Brownfield Plan Amendment Approved by the City of Muskegon
Brownfield Redevelopment Authority

October 12, 2021

Initial Brownfield Plan Amendment Approved by the City of Muskegon Board
of Commissioners

October 26, 2021

Amendment to Brownfield Plan Amendment Approved by the City of
Muskegon Brownfield Redevelopment Authority

Amendment to Brownfield Plan Amendment Approved by the City of
Muskegon Board of Commissioners

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1.0 Introduction

The City of Muskegon Brownfield Redevelopment Authority (the “Authority” or MBRA) was established by the City of Muskegon pursuant to the Brownfield Redevelopment Financing Act, Michigan Public Act 381 of 1996, as amended (“Act 381”). The primary purpose of Act 381 is to encourage the redevelopment of eligible property by providing economic development incentives through tax increment financing for certain eligible properties.

On October 26, 2021, the City of Muskegon (the “City”) approved a Brownfield Plan Amendment (BPA) to incorporate 1148 and 1204 West Western Avenue (“Eligible Property”, “Site”, or “Property”) into the City’s existing Brownfield Plan. The BPA detailed redevelopment plans for a five-phase redevelopment at the Eligible Property, including eligible activity costs and related reimbursement through local-only tax increment financing.

This amendment to the BPA has been prepared to add state school tax capture for reimbursement of costs related to Michigan Strategic Fund (MSF) eligible activities during the first three immediate phases of redevelopment. Future amendments to this amended BPA may be pursued for phases four and five of the development. See Attachment A for copies of amended BPA resolutions.

1.1 Proposed Redevelopment and Future Use for the Eligible Property

The Developer, Adelaide Pointe QOZB, LLC, is proposing to redevelop a former industrial site located at 1204 West Western Avenue (1148 & 1204 West Western Avenue are now combined), Muskegon, Michigan. Figures 1 and 2 depict the Eligible Property location and layout.

Redevelopment consists of five phases that are anticipated to be completed by 2030. Phases one through three are the focus of this amended BPA. Development phasing is described below:

Development Phase	Anticipated/Actual Start Date	Desired/Actual Completion Date
Phase I – Revitalize existing buildings for boat storage	Spring/Summer 2021	Spring 2022
Phase II – Construction of marina, mixed-use building, boater services building*	Spring 2023	Fall/Winter 2024
Phase III – Construction of 55-unit residential condo building*	Spring 2023	Fall/Winter 2024
Phase IV – Construction of hotel and 50 boat storage units and warehouse	Spring 2024	Fall 2027
Phase V – Construction of residential condos	Spring 2025	Fall 2030

Phases one through three include revitalizing the existing site structures for boat storage, business offices, and lease space (approx. 218,000 sf); creation of a new 280 slip marina and construction of a new three-story, mixed-use building with ground level retail and office space (approximately 14,700 gross sf), a second-floor restaurant (approximately 3,700 sf), and third floor deck area (approx. 3,700 sf) (the “Project”). The Project will create a walkable community that incorporates public access to waterfront activities (e.g., swimming, fishing, boating), inviting greenspace areas, and transient docking. Sustainable development techniques are proposed throughout

the Project, including mass timber construction, solar boardwalks and roof systems, electric vehicle charging stations, low-impact development stormwater management, and integrated parking. Total private investment in Phases one through three, not including property acquisition, is approximately \$125,000,000. The mixed-use waterfront development will create approximately 100 new jobs (retail, office, restaurant, marina) and provide contractor work for hundreds of temporary construction workers.

In addition to environmental activities, this amendment to the BPA includes non-environmental eligible activities necessary to complete the Project. Non-environmental activities will include demolition, lead/asbestos abatement, site preparation and public infrastructure improvements. Public infrastructure improvements will include upgrades to the public utilities (water main, sanitary sewer, and storm sewer), public roadways, marina and solar docks. Site preparation activities will include specialized foundations, clearing and grubbing, dredging, compaction and sub-base preparation, cut and fill, excavation for unstable material, geotechnical engineering, grading/land balancing, relocation of utilities, temporary erosion controls, temporary site control, surveying and staking, architectural and engineering costs and mass grading.

1.2 Eligible Property Information

The 35-acre Property is located at the west end of West Western Avenue on the south shore of Muskegon Lake. Since the late 1800s, the Property has been utilized for industrial purposes, primarily a lumberyard followed by foundry operations. Based on a recent Phase II Environmental Site Assessment (ESA), completed in December 2020, these past industrial uses have resulted in widespread contamination across the Property. Known contaminants in the soil with concentrations exceeding Michigan Department of Environment, Great Lakes, and Energy (EGLE) Part 201 Generic Residential Cleanup Criteria (GRCC) include tetrachloroethylene (PCE), arsenic, cadmium, chromium (total), copper, mercury, selenium, silver and zinc. Groundwater contaminants with concentrations identified above Part 201 GRCC consist of benzene, 2-methylnaphthalene, naphthalene, cadmium, chromium (total), copper, lead, mercury, and zinc.

The Developer is not a liable party and completed a Baseline Environmental Assessment (BEA) in accordance with Part 201 of the Natural Resources and Environmental Protect Act, 1995 PA 451, as amended (NREPA).

Given the known contamination, the Property is a “facility” pursuant to Part 201 of NREPA. As such, it is considered an “eligible property” as defined by the Michigan Redevelopment Financing Act, Act 381 of 1996.

The location and layout of the Property are depicted in Figures 1 and 2. Environmental data tables and an exceedance map are provided in Attachment C.

2.0 Information Required by Section 13(2) of the Statute

2.1 Description of Costs to Be Paid for With Tax Increment Revenues

Tax increment revenues will be used to reimburse the Developer and City, as applicable, for the following eligible activities.

- Pre-approved BEA, documentation of due care, asbestos/lead paint survey, and additional due care assessment
- Due care activities
- Asbestos, lead paint, and mold abatement
- Select building and site demolition
- Site preparation
- Infrastructure improvements (public)
- 15% contingency

- Brownfield Plan Amendment
- Brownfield Plan Amendment Implementation
- Interest

The table below provides an eligible activity cost summary for the Project.

EGLE Eligible Activities	Estimated Cost
<u>Department Specific Activities</u>	
Pre-Approved Sub-Total	\$350,000
BEA activities	\$52,000
Documentation of due care	\$33,000
Hazardous materials survey (e.g., asbestos, lead paint, etc.)	\$20,000
Due care assessment	\$245,000
EGLE Eligible Activities Total Costs	\$350,000
Interest (5%)	\$15,354
EGLE Eligible Costs Sub-Total	\$365,354

Summary of Eligible Activity Costs - Developer MSF				
MSF Eligible Activities	Total Cost	Developer Cost	Estimated Completion Schedule	Redevelopment Phase Related to Activity
Public Infrastructure Improvements Sub-Total	\$8,100,000	\$8,100,000		
Public Parks (Linear Park, East Peninsula Park, Commuter Bike Path)	\$2,000,000	\$2,000,000	2023-2024	Phase II & III
Public Shopper Dock and Public Transient Dock	\$1,300,000	\$1,300,000	2023-2024	Phase II
Marina Basin- (breakwater system/public access path)	\$4,300,000	\$4,300,000	2023-2024	Phase II
Solar Powered Docks	\$500,000	\$500,000	2023-2024	Phase II
Site Preparation Sub-Total	\$6,750,000	\$6,750,000		
Specialized Foundations	\$905,000	\$905,000	2023-2024	Phase II-V
Clearing and Grubbing	\$300,000	\$300,000	2023-2024	Phase II & III

Dredging	\$800,000	\$800,000	2023-2024	Phase II & III
Compaction and Sub-Base Preparation	\$350,000	\$350,000	2023-2024	Phase II & III
Cut and Fill	\$300,000	\$300,000	2023-2024	Phase II
Excavation for Unstable Material	\$70,000	\$70,000	2023-2024	Phase II & III
Fill	\$850,000	\$850,000	2023-2024	Phase II & III
Geotechnical Engineering	\$180,000	\$180,000	2023-2024	Phase I, II & III
Grading/Land Balancing	\$1,550,000	\$1,550,000	2023-2024	Phase II & III
Relocation of Active Utilities	\$350,000	\$350,000	2023-2024	Phase II & III
Temporary Erosion Controls	\$110,000	\$110,000	2023-2024	Phase II & III
Temporary Facility	\$165,000	\$165,000	2023-2024	Phase II & III
Temporary Site Control	\$195,000	\$195,000	2023-2024	Phase II & III
Surveying and Staking	\$125,000	\$125,000	2023-2024	Phase II & III
Architectural/Engineering Costs Related to Eligible Activities	\$500,000	\$500,000	2023-2024	Phase II & III
MSF Eligible Activities Sub-Total	\$14,850,000	\$14,850,000		
Contingency (15 %)	\$2,227,500	\$2,227,500		Phase II-V
Interest (5 %)*	\$7,281,564	\$7,281,564		Phase I-V
Brownfield Plan and Work Plan Preparation	\$10,000	\$10,000		Phase I
Brownfield Plan and Work Plan Implementation	\$10,000	\$10,000		Phase I
MSF Eligible Activities Total Costs	\$24,379,064	\$24,379,064		

*Interest collected at a 5% rate and capped at less than \$8,000,000

ELIGIBLE ACTIVITIES COST SUMMARY- City of Muskegon Activities

MSF Eligible Non-Environmental Activities	Total Cost	City of Muskegon Cost	Estimated Completion Schedule	Redevelopment Phase Related Activity
Public Infrastructure (sub-total)	\$6,743,620	\$6,743,620		
Public Roadways	\$4,000,000	\$4,000,000	2023-2024	Phase II
West Western Avenue Reconfiguration-Roadway	\$1,023,620	\$1,023,620	2023-2024	Phase II
Water Main	\$850,000	\$850,000	2023-2024	Phase II
Sanitary Sewer	\$600,000	\$600,000	2023-2024	Phase II
Storm Sewer	\$270,000	\$270,000	2023-2024	Phase II
Local Only Non-Environmental Activities Total Costs	\$6,743,620	\$6,743,620		
Interest (5%)	\$1,357,768	\$1,357,768		
Total City of Muskegon Bond Eligible Costs	\$8,101,388	\$8,101,388		

LOCAL ONLY ELIGIBLE ACTIVITIES COST SUMMARY (Developer)	
Local Only Eligible Activities	Estimated Cost
Department Specific Activities	
Due Care Sub-Total	\$3,250,000
Vapor intrusion mitigation	\$500,000
Soil capping	\$1,500,000
Dewatering	\$250,000
Contaminated Soil/Dredge Materials Removal and Disposal	\$1,000,000
Local Only Department Specific Activities Total Costs	\$3,250,000
Non-Environmental Activities	
Asbestos, Lead based Paint and Mold Abatement	\$250,000

Demolition	\$500,000
Site Preparation (Sub-total)	\$3,160,000
Specialized Foundations	\$1,250,000
Clearing and Grubbing	\$150,000
Compaction and Sub-Base Preparation	\$10,000
Geotechnical Engineering	\$50,000
Relocation of Active Utilities	\$100,000
Surveying & Staking	\$100,000
Architectural/Engineering Costs Related to Eligible Activities	\$1,500,000
Public Infrastructure (Sub-total)	\$1,900,000
Solar Powered Docks (public)	\$500,000
Community Building/Clubhouse and Pool (Public)	\$1,400,000
Non-Environmental Local Only Eligible Costs	\$5,810,000
Contingency (15%)	\$871,500
Brownfield Plan/Act 381 Workplan Preparation	\$10,000
Interest (5%)*	\$2,462,900
Total EGLE and Non-Environmental Local Only Eligible Costs	\$12,404,400

*5% Interest capture begins after MSF Non-Environmental Costs are reimbursed

2.2 Summary of Eligible Activities

Eligible activities as defined by Act 381 and included in this amended BPA consist of the following:

Pre-Approved Activities: These activities are permitted to occur prior to amended BPA approval. Preparation of a Phase I ESA, BEA and Documentation of Due Care Compliance were necessary to protect the new Property owner/Developer from liability for environmental contamination. A Hazardous Materials Investigation was conducted to evaluate potential asbestos, lead paint, and other hazardous materials, as required by regulatory agencies prior to select building demolition activities. Due care assessment will be conducted to verify compliance with applicable due care obligations. Pre-approved activities can be reimbursed from state school and local tax increment revenues.

Due Care Activities: Due care activities will include implementation of vapor intrusion mitigation systems, as applicable, to prevent unacceptable exposures to potential indoor air inhalation concerns. Soil capping will be completed to protect against direct contact concerns related to known contamination. Contaminated

soils/dredge materials which cannot be utilized on the Property will be hauled to an appropriate Type 2 landfill for disposal. During construction activities, dewatering may be necessary. Contaminated groundwater will be properly managed to comply with due care. Due care costs will include environmental oversight and management.

Asbestos, Lead Paint, and Mold Abatement: Prior to select building demolition activities, asbestos, lead paint, and mold were abated, as applicable, in accordance with applicable regulatory guidelines.

Demolition: Select building and Site demolition will be necessary to facilitate safe redevelopment and reuse of the Property.

Site Preparation: Site preparation is expected to include specialized foundations due to unsuitable urban fill material across the Site, clearing and grubbing in preparation for redevelopment, dredging, compaction and sub-base preparation, cut and fill, excavation for unstable material, fill, geotechnical engineering, grading, land balancing, relocation of active utilities, temporary erosion control, temporary facility, temporary site control, surveying, staking, and appropriate associated professional engineering/architectural fees related to the eligible activities. All the site preparation activities are necessary to support the redevelopment.

Public Infrastructure Improvements: Public Infrastructure improvements will be made by both the Developer and City of Muskegon in the public right-of-way and publicly accessible land as outlined in the signed Cooperative Use Agreement between the City of Muskegon and AP dated September 13, 2022. Public infrastructure activities, including public parks (Linear Park, East Peninsula Park and the commuter bike path), public roadways (Adelaide Avenue), West Western Avenue reconstruction, public/transient shopper and dockage and dock slips, new and upgraded water main, sanitary sewer and storm sewer utilities, solar power infrastructure for the public shopper and transient dockage and marina upgrades including the breakwater with public access path.

Amended BPA Preparation: This amended BPA was required for authorization of reimbursement to the Developer and City, as applicable, from tax increment revenues under Public Act 381 of 1996, as amended.

Amended BPA Implementation: Tracking, submittal, review of invoices for reimbursement, plan compliance, and data reporting will be conducted.

Contingency: A 15% contingency is included for those activities not already completed.

Interest: A 5% interest on unreimbursed eligible activities is included.

2.3 Estimate of Captured Taxable Value and Tax Increment Revenues

The base year of this amended BPA is 2021, as established in the approved BPA. The 2021 taxable value of the eligible property was \$903,810. After completion of the development (Phases one, two and three), the taxable value is estimated at \$42,875,000. This amended BPA assumes a 1.0% annual increase in the taxable value of the Eligible Property. Initial capture is anticipated to begin in 2023.

The estimated captured taxable value for the redevelopment by year and in aggregate for each taxing jurisdiction is depicted in tabular form (Table 1: Tax Increment Revenue Capture). Actual taxable values and tax increment revenues may vary year to year based on economic and market conditions, tax incentives, building additions, and property improvements, among other factors.

A summary of the estimated reimbursement schedule by year and in aggregate is presented as Table 2: Tax Increment Revenue Reimbursement Allocation.

Method of Financing and Description of Advances Made by the Municipality

The cost of the eligible activities included in this amended BPA will be paid for by the Developer and the City. The Developer and City will seek reimbursement for eligible activity costs through capture of available local and state

(as applicable) school tax increment revenues as permitted by Act 381. Additionally, as necessary personal property taxes may be utilized as well for reimbursement. Refer to Attachment D for a copy of the Reimbursement Agreement.

2.4 Maximum Amount of Note or Bonded Indebtedness

The City of Muskegon may finance eligible public infrastructure improvements and other eligible activities, as applicable, via municipal bonds with tax increment financing as the pay back mechanism subject to the terms outlined in the Reimbursement/Development Agreement (Attachment D). The estimated total bond amount will not exceed \$10,500,000 with interest added at 5 %.

2.5 Duration of Brownfield Plan

Capture of tax increment revenues for the City reimbursement is anticipated to commence in 2023 and end in 2031. Developer reimbursement will follow with an estimated start date of 2023. The anticipated end date for Developer reimbursement is 2046. It is projected that the amended BPA will extend 29 years, which assumes five years of additional capture of tax increment revenues for deposit into a Local Brownfield Revolving Fund, if available.

2.6 Estimated Impact of Tax Increment Financing on Revenues of Taxing Jurisdiction

The estimated amount of tax increment revenues to be captured for this redevelopment from each taxing jurisdiction by year and in aggregate is presented in Tables 1 and 2.

2.7 Legal Description, Property Map, Statement of Qualifying Characteristics and Personal Property

- The legal description is as follows:

1204 W. Western Avenue

CITY OF MUSKEGON PART OF SECTION 25 T10N R17W PRT OF BLKS 578-580 DESC AS FOLS COM AT SE COR LOT 4 BLK 577 TH S 88D 15M W ALG SLY LN SD BLK 577 EXTND (ALSO BEING NLY LN WESTERN AVE) 847.15 FT FOR POB TH N 01D 56M 50S W 256.10 FT TH N 31D 37M 35S E 47 FT TH N 55D 15M 15S E 89.20 FT TH N 35D 54M 50S W 127.65 FT TH N 02D 52M 10S W 553 FT TH S 55D 13 M W 243 FT TH N 34D 47M W 330 FT M/L TO SHORE OF MUSKEGON LAKE REFERRED TO AS PT B TH RECOM AT POB TH S 88D 15M W ALG NLY LN WESTERN AVE 18.65 FT TH SWLY ALG SD NLY LN WESTERN AVE ALG ARC OF A 430.61 FT RAD CURVE TO LT 158.33 FT (LC SD CURVE BEARS S 77D 43M 00S W 157.44 FT & CENTRAL ANG SD CURVE IS 21D 04M 00) TO WLY LN NELY 200 FT OF SD BLK 580 TH N 35D 2M 10S W ALG SD WLY LN SD NELY 200 FT DIST 850 FT M/L TO SHORE OF MUSKEGON LAKE REFERRED TO AS PT C TH NWLY SELY & NELY ALG SHORE OF MUSKEGON LAKE 1300 FT M/L FROM SD PT C TO SD PT B EXC THAT PRT OF ABOVE DESC PARCEL THAT LIES WITHIN THE CHESAPEAKE & OHIO RR ROW EXC THAT PART TAKEN BY THE CITY OF MUSKEGON FOR THE LAKESHORE TRAIL BIKE PATH DESC AS THAT PART OF BLKS 578 & 580 DESC AS COM @ SE COR LOT 4 BLK 577 TH S 88D 40M 42S W ALG N ROW LN WESTERN AVE 847.60 FT TH N 01D 31M 57S W 256.10 FT TH N 32D 02M 28S E 47 FT TH N 55D 40M 08S E 89.20 FT TH N 35D 29M 57S W 127.65 FT TH N 02D 27M 17S W 553 FT TH S 55D 37M 53S W 243 FT TH N 34D 22M 07S W 235.92 FT TO POB TH S 50D 44M 04S W 329.75 FT TH S 20D 19M 09S W 96.30 FT TH S 23D 53M 54S E 405.55 FT TH N 34D 34M 00S W ALG NE LN LAKESHORE YACHT HARBOUR 86.43 FT TH N 23D 53M 54S W 327.11

FT TH N 20D 19M 09S E 107.14 FT TH N 50D 44M 04S E 335.70 FT TH S 33D 32M 57S E 16.08 FT TO POB TAKEN FOR LAKESHORE TRAIL BIKE PATH ACROSS SD PROPERTY AND COM AT SE COR LOT 4 BLK 577 FOR POB TH N 1 DEG 41 MIN W 158.40 FT TH N 76 DEG 43 MIN W 103.55 FT TH NWLY ON THE ARC OF A 492.47 FT RAD CURVE TO THE RT 110.31 FT (LONG CORD BEARS N 70D 18M W 110.07 FT CENTRAL ANGLE IS 12D 50M 00S) TH N 63 DEG 53 MIN W 67 FT TH N 2 DEG 4 MIN W 33.8 FT TO RR R/W TH CON'T N 2 DEG 4 MIN W 367.7 FT TH N 37 DEG W 730 FT TH N 48 DEG W 600 FT M/L TO MUSKEGON LAKE TO A PT A RECOM AT POB TH S 88 DEG 15 MIN W 847.15 FT TH N 1 DEG 56 MIN 50 SEC W 256.1 FT TH N 31 DEG 37 MIN 35 SEC E 47 FT TH N 55 DEG 15 MIN 15 SEC E 89.2 FT TH N 35 DEG 54 MIN 50 SEC W 127.65 FT TH N 2 DEG 52 MIN 10 SEC W 553 FT TH S 55 DEG 13 MIN W 243 FT TH N 34 DEG 47 MIN W 330 FT M/L TO THE SHORE OF MUSKEGON LAKE TO A PT REFERRED TO AS PT B TH WLY ALG SHORE LN 1500 FT M/L TO SD PT A EXC THAT PART LYING WITHIN C&O RR R/W RECORDED IN L 702 P 134 ALSO EXC COM AT SW COR LOT 4 BLK 574 FOR POB TH WLY ALG WESTERN AVE 20.5 FT TO SE COR LOT 5 TH NLY TO SLY LN C&O RR R/W TH SELY ALG SLY LN OF SD R/W TO NW COR LOT 3 BLK 577 TH S ALG W LN LOT 3 TO NE COR LOT 4 TH WLY ALG NLY LN LOT 4 40 FT TO NW COR SD LOT TH SLY ALG W LN TO POB EXC THAT PART OF BLK 578 DESCRIBED AS COM AT THE SE COR OF LOT 4 BLK 577 TH S 88D 40M 42S W ALG N R-O-W LINE OF WESTERN AVE 847.60 FT TH N 01D 31M 57S W 256.10 FT TH N 32 D 02M 28S E 47 FT TH N 55D 40M 08S E 89.20 FT TH N 35D 29M 57S W 127.65 FT TH N 02D 27M 17S W 553 FT TH S 55D 37M 53S W 243 FT TH N 34D 22M 07S W 235.92 FT TO POB TH N 33D 32M 57S W 16.08FT TH N 62D 10M 01S E 211.19 FT TH S 87D 42M 46S E 126.81 FT TH N 71D 39M 34S E 169.45 FT TH S 53D 57M 29S E 104.89 FT TH S 36D 27M 44S E 604.13 FT TH S 01D 31M 44S E 16 FT TH S 38D 27M 16S W 8.34 FT TH N 36D 27M 44S W 610.01FT TH N 53D 57M 29S W 94.21 FT TH S 71D 39M 34S W 164.14 FT TH N 87D 42M 46S W 125.42 FT TH S 62D 10M 01S W 205.29 FT TO POB

- The Property layout is depicted on Figure 2.
- The Property is considered an “eligible property” as defined by Act 381 because the Property is a facility pursuant to Part 201. Facility verification is included in Attachment C.
- New personal property added to the Property is included as part of the Eligible Property to the extent it is taxable.

2.8 Estimates of Residents and Displacement of Individuals/Families

No residents or families will be displaced because of the Project.

2.9 Plan for Relocation of Displaced Persons

Not applicable.

2.10 Provisions for Relocation Costs

Not applicable.

2.11 Strategy for Compliance with Michigan’s Relocation Assistance Law

Not applicable.

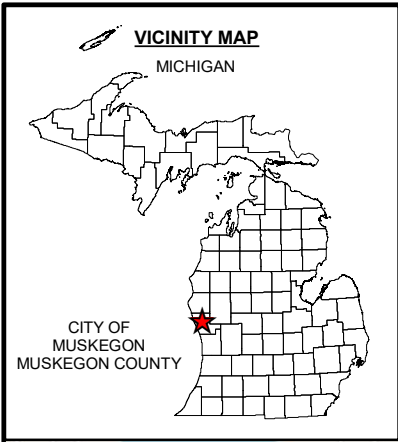
2.12 Other Material that the Authority or Governing Body Considers Pertinent

The Project will significantly improve the Muskegon Lake shoreline through revitalization of Property once used for industrial purposes. Existing structures will be revitalized, and environmental exposure risks mitigated. A new marina with transient boat slips will provide local citizens and tourists with opportunities to access the vibrant Muskegon downtown and other nearby recreational activities. Construction of new boat storage and residential

condominiums will expand Muskegon Lake access and increase long-term tax revenues for the City of Muskegon and the State of Michigan. The Development will also create numerous job opportunities for the community.

Figure 1

Location Map

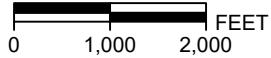


Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

1148 & 1204 West Western Ave., Muskegon, Muskegon County MI 49441



LOCATION MAP



PROJECT NO.
201515

FIGURE NO.

1

Figure 2

Site Layout Map


Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

1148 & 1204 West Western Ave., Muskegon, Muskegon County MI 49441

PROJECT NO.
201515

FIGURE NO.
2

LEGEND

 Approximate Property Boundary



PLOT INFO: Z:\2020\201515\CAD\GIS\mapdoc\FIG03_SiteMap.mxd Date: 5/25/2021 2:03:18 PM User: bahannah

Table 1

Tax Increment Revenue Capture

Table 1 - Estimate of Total Incremental Taxes Available for Capture
 1148 and 1204 West Western Avenue, Muskegon, Muskegon County, Michigan

Estimated Taxable Value (TV) Increase Rate: 1%

Plan Year	0	1	2	3	4	5	6	7	8	9	10
Calendar Year	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Base Taxable Value	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810
Estimated New TV	\$ -	\$ 1,750,000	\$ 14,875,000	\$ 42,875,000	\$ 43,303,750	\$ 43,736,788	\$ 44,174,155	\$ 44,615,897	\$ 45,062,056	\$ 45,512,676	\$ 45,967,803
Incremental Difference (New TV - Base TV) ¹	\$ -	\$ 846,190	\$ 13,971,190	\$ 41,971,190	\$ 42,399,940	\$ 42,832,978	\$ 43,270,345	\$ 43,712,087	\$ 44,158,246	\$ 44,608,866	\$ 45,063,993

School Capture	Millage Rate	0	1	2	3	4	5	6	7	8	9	10
State Education Tax (SET)	6.00000	\$ -	\$ 5,077	\$ 83,827	\$ 251,827	\$ 254,400	\$ 256,998	\$ 259,622	\$ 262,273	\$ 264,949	\$ 267,653	\$ 270,384
School Operating Tax	17.98380	\$ -	\$ 15,218	\$ 251,255	\$ 754,801	\$ 762,512	\$ 770,300	\$ 778,165	\$ 786,109	\$ 794,133	\$ 802,237	\$ 810,422
School Total	23.9838	\$ -	\$ 20,295	\$ 335,082	\$ 1,006,629	\$ 1,016,912	\$ 1,027,298	\$ 1,037,787	\$ 1,048,382	\$ 1,059,083	\$ 1,069,890	\$ 1,080,806

Local Capture	Millage Rate	0	1	2	3	4	5	6	7	8	9	10
County Museum	0.32200	\$ -	\$ 272	\$ 4,499	\$ 13,515	\$ 13,653	\$ 13,792	\$ 13,933	\$ 14,075	\$ 14,219	\$ 14,364	\$ 14,511
County Veterans	0.07150	\$ -	\$ 61	\$ 999	\$ 3,001	\$ 3,032	\$ 3,063	\$ 3,094	\$ 3,125	\$ 3,157	\$ 3,190	\$ 3,222
Senior Citizens Services	0.49990	\$ -	\$ 423	\$ 6,984	\$ 20,981	\$ 21,196	\$ 21,412	\$ 21,631	\$ 21,852	\$ 22,075	\$ 22,300	\$ 22,527
Central Dispatch	0.29999	\$ -	\$ 254	\$ 4,191	\$ 12,591	\$ 12,720	\$ 12,849	\$ 12,981	\$ 13,113	\$ 13,247	\$ 13,382	\$ 13,519
Community College	2.20340	\$ -	\$ 1,864	\$ 30,784	\$ 92,479	\$ 93,424	\$ 94,378	\$ 95,342	\$ 96,315	\$ 97,298	\$ 98,291	\$ 99,294
M.A.I.S.D	4.75410	\$ -	\$ 4,023	\$ 66,420	\$ 199,535	\$ 201,574	\$ 203,632	\$ 205,712	\$ 207,812	\$ 209,933	\$ 212,075	\$ 214,239
City Operating	10.07540	\$ -	\$ 8,526	\$ 140,765	\$ 422,877	\$ 427,196	\$ 431,559	\$ 435,966	\$ 440,417	\$ 444,912	\$ 449,452	\$ 454,038
City Sanitation	2.99790	\$ -	\$ 2,537	\$ 41,884	\$ 125,825	\$ 127,111	\$ 128,409	\$ 129,720	\$ 131,044	\$ 132,382	\$ 133,733	\$ 135,097
Hackley Library	2.39970	\$ -	\$ 2,031	\$ 33,527	\$ 100,718	\$ 101,747	\$ 102,786	\$ 103,836	\$ 104,896	\$ 105,967	\$ 107,048	\$ 108,140
MPS Sinking	0.99810	\$ -	\$ 845	\$ 13,945	\$ 41,891	\$ 42,319	\$ 42,752	\$ 43,188	\$ 43,629	\$ 44,074	\$ 44,524	\$ 44,978
County Operating	5.69780	\$ -	\$ 4,821	\$ 79,605	\$ 239,143	\$ 241,586	\$ 244,054	\$ 246,546	\$ 249,063	\$ 251,605	\$ 254,172	\$ 256,766
Local Total	30.3198	\$ -	\$ 25,656	\$ 423,604	\$ 1,272,558	\$ 1,285,557	\$ 1,298,687	\$ 1,311,948	\$ 1,325,341	\$ 1,338,869	\$ 1,352,531	\$ 1,366,331

Non-Capturable Millages	Millage Rate	0	1	2	3	4	5	6	7	8	9	10
Community College Debt	0.34000	\$ -	\$ 288	\$ 4,750	\$ 14,270	\$ 14,416	\$ 14,563	\$ 14,712	\$ 14,862	\$ 15,014	\$ 15,167	\$ 15,322
Hackley Debt	0.45320	\$ -	\$ 383	\$ 6,332	\$ 19,021	\$ 19,216	\$ 19,412	\$ 19,610	\$ 19,810	\$ 20,013	\$ 20,217	\$ 20,423
MPS Debt - 1995	3.86000	\$ -	\$ 3,266	\$ 53,929	\$ 162,009	\$ 163,664	\$ 165,335	\$ 167,024	\$ 168,729	\$ 170,451	\$ 172,190	\$ 173,947
MPS Debt - 2009	3.50000	\$ -	\$ 2,962	\$ 48,899	\$ 146,899	\$ 148,400	\$ 149,915	\$ 151,446	\$ 152,992	\$ 154,554	\$ 156,131	\$ 157,724
Total Non-Capturable Taxes	8.1532	\$ -	\$ 6,899	\$ 113,910	\$ 342,200	\$ 345,695	\$ 349,226	\$ 352,792	\$ 356,393	\$ 360,031	\$ 363,705	\$ 367,416

¹Assumes 1% annual increase for inflation

Total Tax Increment Revenue (TIR) Available for Capture	\$ -	\$ 45,951	\$ 758,686	\$ 2,279,186	\$ 2,302,469	\$ 2,325,984	\$ 2,349,735	\$ 2,373,723	\$ 2,397,951	\$ 2,422,422	\$ 2,447,137
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Notes-

Table 2 assumes incremental annual investment with project completion in 2025.

For the purpose of Table 2 the new taxable value is estimated based on 35% of a total overall investment of \$125,000,000

Table 1 - Estimate of Total Incremental Taxes Available for Capture
 1148 and 1204 West Western Avenue, Muskegon, Muskegon County, Michigan

Estimated Taxable Value (TV) Increase Rate:

Plan Year	11	12	13	14	15	16	17	18	19	20	21	22
Calendar Year	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
Base Taxable Value	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810
Estimated New TV	\$ 46,427,481	\$ 46,891,756	\$ 47,360,674	\$ 47,834,280	\$ 48,312,623	\$ 48,795,749	\$ 49,283,707	\$ 49,776,544	\$ 50,274,309	\$ 50,777,052	\$ 51,284,823	\$ 51,797,671
Incremental Difference (New TV - Base TV) ¹	\$ 45,523,671	\$ 45,987,946	\$ 46,456,864	\$ 46,930,470	\$ 47,408,813	\$ 47,891,939	\$ 48,379,897	\$ 48,872,734	\$ 49,370,499	\$ 49,873,242	\$ 50,381,013	\$ 50,893,861

School Capture	Millage Rate												
State Education Tax (SET)	6.00000	\$ 273,142	\$ 275,928	\$ 278,741	\$ 281,583	\$ 284,453	\$ 287,352	\$ 290,279	\$ 293,236	\$ 296,223	\$ 299,239	\$ 302,286	\$ 305,363
School Operating Tax	17.98380	\$ 818,689	\$ 827,038	\$ 835,471	\$ 843,988	\$ 852,591	\$ 861,279	\$ 870,054	\$ 878,917	\$ 887,869	\$ 896,910	\$ 906,042	\$ 915,265
School Total	23.9838	\$ 1,091,831	\$ 1,102,966	\$ 1,114,212	\$ 1,125,571	\$ 1,137,043	\$ 1,148,631	\$ 1,160,334	\$ 1,172,154	\$ 1,184,092	\$ 1,196,150	\$ 1,208,328	\$ 1,220,628

Local Capture	Millage Rate												
County Museum	0.32200	\$ 14,659	\$ 14,808	\$ 14,959	\$ 15,112	\$ 15,266	\$ 15,421	\$ 15,578	\$ 15,737	\$ 15,897	\$ 16,059	\$ 16,223	\$ 16,388
County Veterans	0.07150	\$ 3,255	\$ 3,288	\$ 3,322	\$ 3,356	\$ 3,390	\$ 3,424	\$ 3,459	\$ 3,494	\$ 3,530	\$ 3,566	\$ 3,602	\$ 3,639
Senior Citizens Services	0.49990	\$ 22,757	\$ 22,989	\$ 23,224	\$ 23,461	\$ 23,700	\$ 23,941	\$ 24,185	\$ 24,431	\$ 24,680	\$ 24,932	\$ 25,185	\$ 25,442
Central Dispatch	0.29999	\$ 13,657	\$ 13,796	\$ 13,937	\$ 14,079	\$ 14,222	\$ 14,367	\$ 14,513	\$ 14,661	\$ 14,811	\$ 14,961	\$ 15,114	\$ 15,268
Community College	2.20340	\$ 100,307	\$ 101,330	\$ 102,363	\$ 103,407	\$ 104,461	\$ 105,525	\$ 106,600	\$ 107,686	\$ 108,783	\$ 109,891	\$ 111,010	\$ 112,140
M.A.I.S.D	4.75410	\$ 216,424	\$ 218,631	\$ 220,861	\$ 223,112	\$ 225,386	\$ 227,683	\$ 230,003	\$ 232,346	\$ 234,712	\$ 237,102	\$ 239,516	\$ 241,955
City Operating	10.07540	\$ 458,669	\$ 463,347	\$ 468,071	\$ 472,843	\$ 477,663	\$ 482,530	\$ 487,447	\$ 492,412	\$ 497,428	\$ 502,493	\$ 507,609	\$ 512,776
City Sanitation	2.99790	\$ 136,475	\$ 137,867	\$ 139,273	\$ 140,693	\$ 142,127	\$ 143,575	\$ 145,038	\$ 146,516	\$ 148,008	\$ 149,515	\$ 151,037	\$ 152,575
Hackley Library	2.39970	\$ 109,243	\$ 110,357	\$ 111,483	\$ 112,619	\$ 113,767	\$ 114,926	\$ 116,097	\$ 117,280	\$ 118,474	\$ 119,681	\$ 120,899	\$ 122,130
MPS Sinking	0.99810	\$ 45,437	\$ 45,901	\$ 46,369	\$ 46,841	\$ 47,319	\$ 47,801	\$ 48,288	\$ 48,780	\$ 49,277	\$ 49,778	\$ 50,285	\$ 50,797
County Operating	5.69780	\$ 259,385	\$ 262,030	\$ 264,702	\$ 267,400	\$ 270,126	\$ 272,879	\$ 275,659	\$ 278,467	\$ 281,303	\$ 284,168	\$ 287,061	\$ 289,983
Local Total	30.3198	\$ 1,380,268	\$ 1,394,345	\$ 1,408,562	\$ 1,422,922	\$ 1,437,425	\$ 1,452,074	\$ 1,466,868	\$ 1,481,811	\$ 1,496,903	\$ 1,512,146	\$ 1,527,542	\$ 1,543,091

Non-Capturable Millages	Millage Rate												
Community College Debt	0.34000	\$ 15,478	\$ 15,636	\$ 15,795	\$ 15,956	\$ 16,119	\$ 16,283	\$ 16,449	\$ 16,617	\$ 16,786	\$ 16,957	\$ 17,130	\$ 17,304
Hackley Debt	0.45320	\$ 20,631	\$ 20,842	\$ 21,054	\$ 21,269	\$ 21,486	\$ 21,705	\$ 21,926	\$ 22,149	\$ 22,375	\$ 22,603	\$ 22,833	\$ 23,065
MPS Debt - 1995	3.86000	\$ 175,721	\$ 177,513	\$ 179,323	\$ 181,152	\$ 182,998	\$ 184,863	\$ 186,746	\$ 188,649	\$ 190,570	\$ 192,511	\$ 194,471	\$ 196,450
MPS Debt - 2009	3.50000	\$ 159,333	\$ 160,958	\$ 162,599	\$ 164,257	\$ 165,931	\$ 167,622	\$ 169,330	\$ 171,055	\$ 172,797	\$ 174,556	\$ 176,334	\$ 178,129
Total Non-Capturable Taxes	8.1532	\$ 371,164	\$ 374,949	\$ 378,772	\$ 382,634	\$ 386,534	\$ 390,473	\$ 394,451	\$ 398,469	\$ 402,528	\$ 406,627	\$ 410,766	\$ 414,948

¹Assumes 1% annual increase for inflation

Total Tax Increment Revenue (TIR) Available for Capture	\$ 2,472,099	\$ 2,497,311	\$ 2,522,774	\$ 2,548,493	\$ 2,574,469	\$ 2,600,704	\$ 2,627,202	\$ 2,653,965	\$ 2,680,995	\$ 2,708,296	\$ 2,735,870	\$ 2,763,719
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Notes-

Table 2 assumes incremental annual investment with project completion in 2025.

For the purpose of Table 2 the new taxable value is estimated based on 35% of a total overall investment of \$125,000,000

Table 1 - Estimate of Total Incremental Taxes Available for Capture
 1148 and 1204 West Western Avenue, Muskegon County, Michigan

Estimated Taxable Value (TV) Increase Rate:

Plan Year	23	24	25	26	27	28	29	30	TOTAL
Calendar Year	2044	2045	2046	2047	2048	2049	2050	2051	
Base Taxable Value	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ -
Estimated New TV	\$ 52,315,648	\$ 52,838,804	\$ 53,367,192	\$ 53,900,864	\$ 54,439,873	\$ 54,984,272	\$ 55,534,115	\$ 56,089,456	\$ -
Incremental Difference (New TV - Base TV) ¹	\$ 51,411,838	\$ 51,934,994	\$ 52,463,382	\$ 52,997,054	\$ 53,536,063	\$ 54,080,462	\$ 54,630,305	\$ 55,185,646	\$ -

School Capture	Millage Rate									
State Education Tax (SET)	6.00000	\$ 308,471	\$ 311,610	\$ 314,780	\$ 317,982	\$ 321,216	\$ 324,483	\$ 327,782	\$ 331,114	\$ 4,441,724
School Operating Tax	17.98380	\$ 924,580	\$ 933,989	\$ 943,491	\$ 953,088	\$ 962,782	\$ 972,572	\$ 982,460	\$ 992,448	\$ 13,313,180
School Total	23.9838	\$ 1,233,051	\$ 1,245,599	\$ 1,258,271	\$ 1,271,071	\$ 1,283,998	\$ 1,297,055	\$ 1,310,242	\$ 1,323,561	\$ 17,754,904

Local Capture	Millage Rate									
County Museum	0.32200	\$ 16,555	\$ 16,723	\$ 16,893	\$ 17,065	\$ 17,239	\$ 17,414	\$ 17,591	\$ 17,770	\$ 238,373
County Veterans	0.07150	\$ 3,676	\$ 3,713	\$ 3,751	\$ 3,789	\$ 3,828	\$ 3,867	\$ 3,906	\$ 3,946	\$ 52,931
Senior Citizens Services	0.49990	\$ 25,701	\$ 25,962	\$ 26,226	\$ 26,493	\$ 26,763	\$ 27,035	\$ 27,310	\$ 27,587	\$ 370,070
Central Dispatch	0.29999	\$ 15,423	\$ 15,580	\$ 15,738	\$ 15,899	\$ 16,060	\$ 16,224	\$ 16,389	\$ 16,555	\$ 222,079
Community College	2.20340	\$ 113,281	\$ 114,434	\$ 115,598	\$ 116,774	\$ 117,961	\$ 119,161	\$ 120,372	\$ 121,596	\$ 1,631,149
M.A.I.S.D	4.75410	\$ 244,417	\$ 246,904	\$ 249,416	\$ 251,953	\$ 254,516	\$ 257,104	\$ 259,718	\$ 262,358	\$ 3,519,400
City Operating	10.07540	\$ 517,995	\$ 523,266	\$ 528,590	\$ 533,967	\$ 539,397	\$ 544,882	\$ 550,422	\$ 556,017	\$ 7,458,691
City Sanitation	2.99790	\$ 154,128	\$ 155,696	\$ 157,280	\$ 158,880	\$ 160,496	\$ 162,128	\$ 163,776	\$ 165,441	\$ 2,219,307
Hackley Library	2.39970	\$ 123,373	\$ 124,628	\$ 125,896	\$ 127,177	\$ 128,470	\$ 129,777	\$ 131,096	\$ 132,429	\$ 1,776,468
MPS Sinking	0.99810	\$ 51,314	\$ 51,836	\$ 52,364	\$ 52,896	\$ 53,434	\$ 53,978	\$ 54,527	\$ 55,081	\$ 738,881
County Operating	5.69780	\$ 292,934	\$ 295,915	\$ 298,926	\$ 301,967	\$ 305,038	\$ 308,140	\$ 311,273	\$ 314,437	\$ 4,218,009
Local Total	30.3198	\$ 1,558,796	\$ 1,574,658	\$ 1,590,679	\$ 1,606,860	\$ 1,623,202	\$ 1,639,708	\$ 1,656,379	\$ 1,673,217	\$ 22,445,357

Non-Capturable Millages	Millage Rate									
Community College Debt	0.34000	\$ 17,480	\$ 17,658	\$ 17,838	\$ 18,019	\$ 18,202	\$ 18,387	\$ 18,574	\$ 18,763	\$ 251,698
Hackley Debt	0.45320	\$ 23,300	\$ 23,537	\$ 23,776	\$ 24,018	\$ 24,263	\$ 24,509	\$ 24,758	\$ 25,010	\$ 335,498
MPS Debt - 1995	3.86000	\$ 198,450	\$ 200,469	\$ 202,509	\$ 204,569	\$ 206,649	\$ 208,751	\$ 210,873	\$ 213,017	\$ 2,857,509
MPS Debt - 2009	3.50000	\$ 179,941	\$ 181,772	\$ 183,622	\$ 185,490	\$ 187,376	\$ 189,282	\$ 191,206	\$ 193,150	\$ 2,591,006
Total Non-Capturable Taxes	8.1532	\$ 419,171	\$ 423,436	\$ 427,744	\$ 432,096	\$ 436,490	\$ 440,929	\$ 445,412	\$ 449,940	\$ 6,035,711

¹Assumes 1% annual increase for inflation

Total Tax Increment Revenue (TIR) Available for Capture	\$ 2,791,847	\$ 2,820,257	\$ 2,848,950	\$ 2,877,930	\$ 2,907,200	\$ 2,936,763	\$ 2,966,622	\$ 2,996,779	\$ 40,200,261
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Notes-

Table 2 assumes incremental annual investment with project completion in 2025.

For the purpose of Table 2 the new taxable value is estimated based on 35% of a total overall investment of \$125,000,000

Table 2

Tax Increment Revenue Reimbursement Allocation

Table 2 - Estimate of Total Incremental Taxes Available for Reimbursement
1148 1204 West Western Avenue, Muskegon County, Michigan

Table with 28 columns (years 2021-2048) and multiple rows showing financial data: State/Local Tax Available for Reimbursement, Total Incremental Revenue, Developer Reimbursement Balance, City of Muskegon Bonded Activities, and Total Annual City of Muskegon Reimbursement.

Estimated Years of Capture: 28 years

Summary table with 2 columns: Description and Value. Includes rows for Estimated Developer Capture, Estimated City of Muskegon Capture, State/Local Tax Available for Reimbursement, and Total Annual Developer Reimbursement.

* Up to five years of capture for LRP deposits after eligible activities are reimbursed. May be taken from local TIF only.

Attachment A

Brownfield Plan Resolution(s)

**City of Muskegon
Brownfield Redevelopment Authority
County of Muskegon, State of Michigan**

RESOLUTION APPROVING REVISED BROWNFIELD PLAN AMENDMENT

Adelaide Pointe Project - amended

Minutes of a regular meeting of the Board of the City of Muskegon Brownfield Redevelopment Authority, County of Muskegon, State of Michigan, held on the 12th day of October 2021 at 10:30 a.m., prevailing Eastern Time.

PRESENT: Members - M. Bottomley, J. Riegler, M. Johnson Sr., J. Moore, F. Peterson, F. DePung, D. Pollock.

ABSENT: Members - B. Hastings, M. Kleaveland, H. Systema, J. Wallace Jr., S. Black, D. Kalisz.

The following preamble and resolution were offered by Member J. Riegler and supported by Member F. Peterson:

WHEREAS, a Brownfield Plan has been adopted pursuant to Act 381, Public Acts of Michigan, 1996, as amended ("Act 381"), a copy of which is on file with the Secretary of the City of Muskegon Brownfield Redevelopment Authority (the "Authority"); and

WHEREAS, the Authority is authorized to approve amendments to the Brownfield Plan and recommends the Amendment to add eligible properties within the Adelaide Pointe Project for approval to the City of Muskegon, County of Muskegon, State of Michigan (the "City").

NOW, THEREFORE, BE IT RESOLVED AS FOLLOWS:

1. Approval of Brownfield Plan. The Board hereby adopts and approves the Brownfield Plan Amendment for the Adelaide Pointe Project and recommends the approval of the Brownfield Plan Amendments by the Muskegon City Commission.
2. Public Hearing. The Board hereby requests city personnel to provide a notice of

Public Hearing on the proposed Brownfield Plan Amendments, and further requests that such hearing notice be provided to all taxing jurisdictions. Notice of the time and place of the hearing shall be given pursuant to Act 267, Public Acts of Michigan, 1976, as amended ("Open Meetings Act").

3. Deliver Resolution and Brownfield Plan to City. The Chair of the Authority is directed to deliver a certified copy of this resolution and the Brownfield Plan Amendments to the City Clerk.

4. Disclaimer. By adoption of this resolution and approval of the Brownfield Plan Amendments, the Authority assumes no obligation or liability to the owner, developer or lessor of the Eligible Property for any loss or damage that may result to such persons from the adoption of this resolution and Brownfield Plan Amendments.

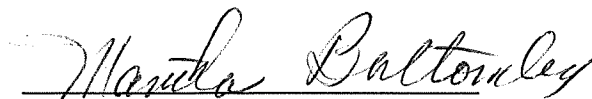
5. Work Plan Transmittal. The Chair of the Authority shall be authorized to transmit to the Michigan Strategic Fund, the Michigan Economic Development Corporation and/or the Michigan Department of Environmental Quality, on behalf of the Authority, a final Act 381 Work Plan that has been reviewed and approved by the Authority.

6. Repealer. All resolutions and parts of resolution in conflict with the provisions of this resolution are hereby repealed or amended to the extent of such conflict.

AYES: 7 (M. Bottomley, J. Riegler, M. Johnson Sr., J. Moore, F. Peterson, F. DePung, D. Pollock.)

NAYS: 0

RESOLUTION DECLARED ADOPTED.



Martha Bottomley, Chair
City of Muskegon Brownfield Redevelopment Authority

I hereby certify that the foregoing is a true and complete copy of a resolution adopted by the Board of the City of Muskegon Brownfield Redevelopment Authority, County of Muskegon, State of Michigan, at a regular meeting held on October 12, 2021, and that said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with the Open Meetings Act, being Act 267, Public Acts of Michigan, 1976, and that the minutes of said meeting were kept and will be or have been made available as required by said Act.



Martha Bottomley, Chair
City of Muskegon Brownfield Redevelopment Authority

**City of Muskegon
Brownfield Redevelopment Authority**

**Brownfield Plan Amendment for the
Adelaide Pointe Project at
1148 & 1204 West Western Avenue
Muskegon, Michigan**

Approved by the City of Muskegon Brownfield Redevelopment Authority

Approved by the City of Muskegon Board of Commissioners

Prepared with the assistance of:

Fishbeck

1515 Arboretum Drive SE

Grand Rapids, Michigan 49546

616-464-3876

1.0 Introduction1

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- Attachment B Conceptual Renderings
- Attachment C Environmental Data Tables and Map
- Attachment D Reimbursement Agreement

1.0 Introduction

The City of Muskegon Brownfield Redevelopment Authority (the “Authority” or MBRA) was established by the City of Muskegon pursuant to the Brownfield Redevelopment Financing Act, Michigan Public Act 381 of 1996, as amended (“Act 381”). The primary purpose of Act 381 is to encourage the redevelopment of eligible property by providing economic development incentives through tax increment financing for certain eligible properties.

This Brownfield Plan Amendment (“Plan Amendment”) serves as an amendment to the City of Muskegon’s existing Brownfield Plan, allowing inclusion of the eligible property described in Sections 1.1 and 1.2 below. Incorporation of eligible property into the City’s Brownfield Plan permits the use of tax increment financing to reimburse Adelaide Pointe QOZB, LLC (“Developer”) for the cost of eligible activities required to redevelop the eligible property. See Attachment A for copies of Plan Amendment resolutions.

1.1 Proposed Redevelopment and Future Use for the Eligible Property

The Developer is proposing to redevelop a former industrial site located at 1148 and 1204 West Western Avenue, Muskegon, Michigan (the “Property”). Proposed redevelopment activities include: revitalizing existing site structures for boat storage, busines offices, and lease space (approx. 218,000 sf); creation of a new 280 slip marina and construction of a three-story, mixed-use building with ground level retail and office space, a second-floor restaurant, and third floor deck area (approx. 7,500 sf); 50 boat condos (totaling approx. 250,000 gross sf); and 250 - 300 residential condo units (averaging approx. 1,500 sf each) within a six building footprint (the “Project”). The Project will create a walkable community that incorporates public access to waterfront activities (e.g., swimming, fishing, boating), inviting greenspace areas, and transient docking. Sustainable development techniques are proposed throughout the Project, including solar boardwalks and roof systems, electric vehicle charging stations, low-impact development stormwater management, and integrated parking. Total private investment, not including property acquisition, is approximately \$250,000,000. The mixed-use waterfront development will create approximately 100 new jobs (retail, office, restaurant, marina) and provide contractor work for hundreds of temporary construction workers. Conceptual renderings are provided in Attachment B.

The structured five-phase development is summarized in the table below.

Development Phase	Anticipated Start Date	Desired Completion Date
Phase I – Revitalize existing buildings for boat storage	Spring/Summer 2021	Summer/Fall 2021
Phase II – Creation of forklift in/out service	Spring 2022	Spring/Summer 2022
Phase III – Construction of marina, mixed-use building	Spring 2022	Fall 2022
Phase IV – Construction of 50 boat storage and warehouse	Spring 2024	Fall 2027
Phase V – Construction of residential condos	Spring 2025	Fall 2030

1.2 Eligible Property Information

The 35-acre Property is located at the west end of West Western Avenue on the south shore of Muskegon Lake. Since the late 1800s, the Property has been utilized for industrial purposes, primarily a lumberyard followed by foundry operations. Based on a recent Phase II Environmental Site Assessment (ESA) completed in December

2020, these past industrial uses have resulted in widespread contamination across the Property. Known contaminants in the soil with concentrations exceeding Michigan Department of Environment, Great Lakes, and Energy (EGLE) Part 201 Generic Residential Cleanup Criteria (GRCC) include tetrachloroethylene (PCE), arsenic, cadmium, chromium (total), copper, and selenium. Groundwater contaminants with concentrations identified above Part 201 GRCC consist of benzene, cadmium, chromium (total), copper, lead, mercury, and zinc.

The Developer is not a liable party and completed a Baseline Environmental Assessment (BEA) in accordance with Part 201 of the Natural Resources and Environmental Protection Act, 1995 PA 451, as amended (NREPA).

Given the known contamination, the Property is a “facility” pursuant to Part 201 of NREPA. As such, it is considered an “eligible property” as defined by the Michigan Redevelopment Financing Act, Act 381 of 1996.

Maps depicting the location and layout of the Property are attached as Figures 1 and 2. Environmental data tables and map are provided in Attachment C.

2.0 Information Required by Section 13(2) of the Statute

2.1 Description of Costs to Be Paid for With Tax Increment Revenues

Act 381 provides pre-approval for certain activities that have been conducted at the Property. Additional activities require BRA approval for reimbursement from local, school operating, and state education taxes. Tax increment revenues will be used to reimburse the Developer and the City of Muskegon for the following eligible activities.

- Pre-approved BEA, documentation of due care, asbestos/lead paint survey, and additional due care assessment
- Due care activities
- Asbestos, lead paint, and mold abatement
- Select building and site demolition
- Site preparation
- Infrastructure improvements (public)- Developer & City
- 15% contingency
- Brownfield Plan Amendment
- Brownfield Plan Amendment Implementation
- Interest

The table below provides an eligible activity cost summary for the Project.

ELIGIBLE ACTIVITIES COST SUMMARY	
EGLE Eligible Activities	Estimated Cost
<u>Department Specific Activities</u>	
1. Pre-Approved Sub-Total	\$350,000
a. BEA activities	\$52,000
b. Documentation of due care	\$33,000
c. Hazardous materials survey (e.g., asbestos, lead paint, etc.)	\$20,000
d. Due care assessment	\$245,000
EGLE Eligible Activities Total Costs	\$350,000
Interest (5%)	\$15,354
EGLE Eligible Costs Sub-Total	\$365,354
Local Only Eligible Activities	Estimated Cost
<u>Department Specific Activities</u>	
2. Due Care Sub-Total	\$3,250,000
a. Vapor intrusion mitigation	\$500,000
b. Soil capping	\$1,500,000
c. Dewatering	\$250,000
d. Contaminated Soil/Dredge Materials Removal and Disposal	\$1,000,000
Local Only Department Specific Activities Total Costs	\$3,250,000
<u>Non-Environmental Activities</u>	
3. Asbestos, lead paint, and mold abatement Sub-Total	\$1,250,000
4. Demolition (select interior and site grounds) Sub-Total	\$1,500,000

5. Site preparation Sub-Total	\$5,545,000
a. Clearing and grubbing	\$300,000
b. Dredging	\$800,000
c. Compaction and sub-base preparation	\$350,000
d. Cut and fill	\$300,000
e. Excavation for unstable material	\$70,000
f. Fill	\$850,000
g. Geotechnical engineering	\$180,000
h. Grading/land balancing	\$1,250,000
i. Relocation of active utilities	\$350,000
j. Temporary erosion control	\$110,000
k. Temporary facility	\$165,000
l. Temporary site control	\$195,000
m. Surveying and staking	\$125,000
n. Architectural/engineering costs related to eligible activities	\$500,000
6. Infrastructure improvements (Public)	\$13,000,000
a. Marina basin (breakwater system/gangway/dockage)	\$10,000,000
b. Parks (Linear Park, East Peninsula Park, Commuter Bike Path)	\$2,000,000
c. East Basin Launch Well	\$1,000,000
Local Only Non-Environmental Activities Total Costs	\$21,295,000
EGLE and Local Only Eligible Costs Sub-Total	\$24,910,354
Contingency (15%)*	\$3,681,750
Brownfield Plan Amendment Preparation	\$10,000
Brownfield Plan Amendment Implementation	\$10,000
Interest (5%)	\$25,554,653
Total EGLE and Local Only Eligible Costs	\$54,166,757

*Not applied to previously completed Department Specific Activities

ELIGIBLE ACTIVITIES COST SUMMARY- City of Muskegon Bond	
	Local Only Activities Total Costs
1. Public Infrastructure (sub-total)	\$10,000,000
a. Roadways (Adelaide Point Ave, East Circle Drive, West	\$6,840,000

Circle Drive, Adelaide Point Drive, South Circle Drive)	
b. West Western Reconfiguration	\$1,035,000
c. East Basin Launch Well	\$1,615,000
2. Site Preparation (sub-total)	
a. Mass Grade Site	\$510,000
Local Only Non-Environmental Activities Total Costs	\$10,000,000
Interest (5%)	\$2,608,621
Total City of Muskegon Bond Eligible Costs	\$12,608,621

2.2 Summary of Eligible Activities

Eligible activities as defined by Act 381 and included in this Plan Amendment consist of the following:

Pre-Approved Activities: These activities are permitted to occur prior to Plan Amendment approval. Preparation of a Phase I ESA, BEA and Documentation of Due Care Compliance are necessary to protect the new Property owner/Developer from liability for environmental contamination. A Hazardous Materials Investigation was conducted to evaluate potential asbestos, lead paint, and other materials, as required by regulatory agencies prior to select building demolition activities. Due care assessment will be conducted to verify compliance with applicable due care obligations. Pre-approved activities can be reimbursed from state school and local tax increment revenues.

Due Care Activities: Due care activities will include implementation of vapor intrusion mitigation systems, as applicable, to prevent unacceptable exposures to potential indoor air inhalation concerns. Soil capping will be completed to protect against direct contact concerns related to known contamination. Contaminated soils/dredge materials which cannot be utilized on the Site will be hauled to an appropriate Type 2 landfill for disposal. During construction activities, dewatering may be necessary. Contaminated groundwater will be properly managed to comply with due care. Due care costs will include environmental oversight and management.

Asbestos, Lead Paint, and Mold Abatement: As applicable, and prior to select building demolition activities, asbestos, lead paint, and mold must be abated in accordance with applicable regulatory guidelines.

Demolition: Select building and Site demolition will be necessary to facilitate safe redevelopment and reuse of the Property.

Site Preparation: Site preparation is expected to include clearing and grubbing, dredging, compaction and sub-base preparation, cut and fill, excavation for unstable material, fill, geotechnical engineering, grading, land balancing, relocation of active utilities, temporary erosion control, temporary facility, temporary site control, surveying, staking and associated professional fees.

Public Infrastructure Improvements: Infrastructure improvements will include marina launch and basin enhancements, sidewalks, bike paths, boardwalks, fishing docks, roadways, curb and gutter, lighting, landscaping, irrigation, low-impact design stormwater management, utilities, and other streetscape improvements. Costs will include oversight, management, and associated professional fees.

Plan Amendment Preparation: This Plan Amendment was required for authorization of reimbursement to the Developer from tax increment revenues under Public Act 381 of 1996, as amended.

Plan Amendment Implementation: Tracking, submittal, review of invoices for reimbursement, plan compliance, and data reporting will be conducted.

Contingency: A 15% contingency is included for those activities not already completed.

2.3 Estimate of Captured Taxable Value and Tax Increment Revenues

For the purposes of this Plan Amendment, the taxable value base year is 2021. The 2021 taxable value of the eligible property is \$903,810. After completion of the development, the taxable value is estimated at \$87,500,000. This Plan Amendment assumes a 1.0% annual increase in the taxable value of the eligible property. Initial capture is anticipated to begin in 2022.

The estimated captured taxable value for the redevelopment by year and in aggregate for each taxing jurisdiction is depicted in tabular form (Table 1: Tax Increment Revenue Capture). Actual taxable values and tax increment revenues may vary year to year based on economic and market conditions, tax incentives, building additions, and property improvements, among other factors.

A summary of the estimated reimbursement schedule by year and in aggregate is presented as Table 2: Tax Increment Revenue Reimbursement Allocation.

Method of Financing and Description of Advances Made by the Municipality

The cost of the eligible activities included in this Plan Amendment will be paid for by the Developer and the City of Muskegon. The Developer and City of Muskegon will seek reimbursement for eligible activity costs through capture of available local and state (as applicable) tax increment revenues as permitted by Act 381. Additionally, as necessary personal property taxes may be utilized as well for reimbursement. Refer to Attachment D for a copy of the Reimbursement Agreement.

2.4 Maximum Amount of Note or Bonded Indebtedness

The City of Muskegon plans to utilize bond proceeds to pay for certain eligible site preparation and public infrastructure costs incurred by the City, which will be repaid via tax increment revenues generated by redevelopment of the Site, and subject to the Reimbursement/Development Agreement. Refer to the table in Section 2.1 for additional information relative to the costs and breakdown of costs associated with the bond. Refer to Table 2 for the reimbursement schedule.

2.5 Duration of Brownfield Plan

Capture of tax increment revenues for City reimbursement is anticipated to commence in 2023 and end in 2029. Developer reimbursement will follow with an estimated start date of 2029. The anticipated end date for Developer reimbursement is 2048. It is projected that the Plan Amendment will extend 30 years, which assumes four years of additional capture of tax increment revenues for deposit into a Local Brownfield Revolving Fund, if available.

2.6 Estimated Impact of Tax Increment Financing on Revenues of Taxing Jurisdiction

The estimated amount of tax increment revenues to be captured for this redevelopment from each taxing jurisdiction by year and in aggregate is presented in Tables 1 and 2.

2.7 Legal Description, Property Map, Statement of Qualifying Characteristics and Personal Property

- The legal description is as follows:

1148 W. Western Avenue

COM AT SE COR LOT 4 BLK 577 FOR POB TH N 1 DEG 41 MIN W 158.40 FT TH N 76 DEG 43 MIN W 103.55 FT TH NWLY ON THE ARC OF A 492.47 FT RAD CURVE TO THE RT 110.31 FT (LONG CORD BEARS N 70D 18M W 110.07 FT CENTRAL ANGLE IS 12D 50M 00S) TH N 63 DEG 53 MIN W 67 FT TH N 2 DEG 4 MIN W 33.8 FT TO RR R/W TH CON'T N 2 DEG 4 MIN W 367.7 FT TH N 37 DEG W 730 FT

1204 W. Western Avenue

PART OF SECTION 25 T10N R17W PRT OF BLKS 578-580DESC AS FOLS COM AT SE COR LOT 4 BLK 577 TH S 88D 15M W ALG SLY LN SD BLK 577 EXTND (ALSO BEING NLY LN WESTERN AVE) 847.15 FT FOR POB TH N 01D 56M 50S W 256.10 FT TH N 31D 37M 35S E 47 FT TH N 55D 15M 15S E 89.20 FT TH N 35D 54M 50S W 127.65 FT TH N 02D 52M 10S W 553 FT TH S 55D 13 M W 243 FT COM 375 FT N OF SW COR OF SW ¼ OF NW ¼, TH N TO A POINT 745 FT S OF NW COR, TH E 225 FT, TH S TO A POINT DUE E OF POB; TH W 225 FT TO POB. SEC 16, T10N RSW. 1.03 AC M/L.

- The Property layout is depicted on Figure 2.
- The Property is considered an “eligible property” as defined by Act 381 because the Property is a facility pursuant to Part 201. Facility verification is included in Attachment C.
- New personal property added to the Property is included as part of the Eligible Property to the extent it is taxable.

2.8 Estimates of Residents and Displacement of Individuals/Families

No residents or families will be displaced because of the Project.

2.9 Plan for Relocation of Displaced Persons

Not applicable.

2.10 Provisions for Relocation Costs

Not applicable.

2.11 Strategy for Compliance with Michigan’s Relocation Assistance Law

Not applicable.

2.12 Other Material that the Authority or Governing Body Considers Pertinent

The Project will significantly improve the Muskegon Lake shoreline through revitalization of Property once used for industrial purposes. Existing structures will be revitalized, and environmental exposure risks mitigated. A new marina with transient boat slips will provide boaters with opportunities to access the vibrant Muskegon downtown and other nearby recreational activities. Construction of new boat storage and residential condominiums will expand Muskegon Lake access and increase long-term tax revenues for the City of Muskegon and the State of Michigan. The Development will also create numerous job opportunities for the community.

Figure 1

Location Map



PLOT INFO: Z:\2020\201515\GIS\mapdoc\FIG01_LocationMap.mxd Date: 12/11/2020 4:33:47 PM User: bahannah

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Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Leestma Management, LLC
 1148 & 1204 West Western Ave., Muskegon, Muskegon County, Michigan
Baseline Environmental Assessment


PROJECT NO.
201515

FIGURE NO.
1

Figure 2

Site Layout Map

LEGEND

 Approximate Property Boundary

Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Leesta Management, LLC
1148 & 1204 West Western Ave., Muskegon, Muskegon County, MI
Baseline Environmental Assessment

PROJECT NO.
201515

FIGURE NO.
2



PLOT INFO: Z:\2020\201515\CAD\GIS\mapdoc\FIG03_SiteMap.mxd Date: 12/11/2020 4:43:23 PM User: bahannah

Source: Esri, Maxar, GeoEye, IGN, Airbus, Airbus DS, USDA, USGS, AeroGRID, IGN, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Swatch

Table 1

Tax Increment Revenue Capture

Table 1 - Estimate of Total Incremental Taxes Available for Capture
 1148 and 1204 West Western Avenue, Muskegon, Muskegon County, Michigan

Estimated Taxable Value (TV) Increase Rate: 1%

Plan Year	0	1	2	3	4	5	6	7	8	9	10
Calendar Year	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Base Taxable Value	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810
Estimated New TV	\$ -	\$ 1,750,000	\$ 14,875,000	\$ 42,875,000	\$ 53,375,000	\$ 61,250,000	\$ 87,500,000	\$ 88,375,000	\$ 89,258,750	\$ 90,151,338	\$ 91,052,851
Incremental Difference (New TV - Base TV) ¹	\$ -	\$ 846,190	\$ 13,971,190	\$ 41,971,190	\$ 52,471,190	\$ 60,346,190	\$ 86,596,190	\$ 87,471,190	\$ 88,354,940	\$ 89,247,528	\$ 90,149,041

School Capture	Millage Rate	0	1	2	3	4	5	6	7	8	9	10
State Education Tax (SET)	6.00000	\$ -	\$ 5,077	\$ 83,827	\$ 251,827	\$ 314,827	\$ 362,077	\$ 519,577	\$ 524,827	\$ 530,130	\$ 535,485	\$ 540,894
School Operating Tax	17.98380	\$ -	\$ 15,218	\$ 251,255	\$ 754,801	\$ 943,631	\$ 1,085,254	\$ 1,557,329	\$ 1,573,064	\$ 1,588,958	\$ 1,605,010	\$ 1,621,222
School Total	23.9838	\$ -	\$ 20,295	\$ 335,082	\$ 1,006,629	\$ 1,258,459	\$ 1,447,331	\$ 2,076,906	\$ 2,097,892	\$ 2,119,087	\$ 2,140,495	\$ 2,162,117

Local Capture	Millage Rate	0	1	2	3	4	5	6	7	8	9	10
County Museum	0.32200	\$ -	\$ 272	\$ 4,499	\$ 13,515	\$ 16,896	\$ 19,431	\$ 27,884	\$ 28,166	\$ 28,450	\$ 28,738	\$ 29,028
County Veterans	0.07150	\$ -	\$ 61	\$ 999	\$ 3,001	\$ 3,752	\$ 4,315	\$ 6,192	\$ 6,254	\$ 6,317	\$ 6,381	\$ 6,446
Senior Citizens Services	0.49990	\$ -	\$ 423	\$ 6,984	\$ 20,981	\$ 26,230	\$ 30,167	\$ 43,289	\$ 43,727	\$ 44,169	\$ 44,615	\$ 45,066
Central Dispatch	0.29999	\$ -	\$ 254	\$ 4,191	\$ 12,591	\$ 15,741	\$ 18,103	\$ 25,978	\$ 26,240	\$ 26,506	\$ 26,773	\$ 27,044
Community College	2.20340	\$ -	\$ 1,864	\$ 30,784	\$ 92,479	\$ 115,615	\$ 132,967	\$ 190,806	\$ 192,734	\$ 194,681	\$ 196,648	\$ 198,634
M.A.I.S.D	4.75410	\$ -	\$ 4,023	\$ 66,420	\$ 199,535	\$ 249,453	\$ 286,892	\$ 411,687	\$ 415,847	\$ 420,048	\$ 424,292	\$ 428,578
City Operating	10.07540	\$ -	\$ 8,526	\$ 140,765	\$ 422,877	\$ 528,668	\$ 608,012	\$ 872,491	\$ 881,307	\$ 890,211	\$ 899,205	\$ 908,288
City Sanitation	2.99790	\$ -	\$ 2,537	\$ 41,884	\$ 125,825	\$ 157,303	\$ 180,912	\$ 259,607	\$ 262,230	\$ 264,879	\$ 267,555	\$ 270,258
Hackley Library	2.39970	\$ -	\$ 2,031	\$ 33,527	\$ 100,718	\$ 125,915	\$ 144,813	\$ 207,805	\$ 209,905	\$ 212,025	\$ 214,167	\$ 216,331
MPS Sinking	0.99810	\$ -	\$ 845	\$ 13,945	\$ 41,891	\$ 52,371	\$ 60,232	\$ 86,432	\$ 87,305	\$ 88,187	\$ 89,078	\$ 89,978
County Operating	5.69780	\$ -	\$ 4,821	\$ 79,605	\$ 239,143	\$ 298,970	\$ 343,841	\$ 493,408	\$ 498,393	\$ 503,429	\$ 508,515	\$ 513,651
Local Total	30.3198	\$ -	\$ 25,656	\$ 423,604	\$ 1,272,558	\$ 1,590,915	\$ 1,829,684	\$ 2,625,578	\$ 2,652,108	\$ 2,678,903	\$ 2,705,966	\$ 2,733,300

Non-Capturable Millages	Millage Rate	0	1	2	3	4	5	6	7	8	9	10
Community College Debt	0.34000	\$ -	\$ 288	\$ 4,750	\$ 14,270	\$ 17,840	\$ 20,518	\$ 29,443	\$ 29,740	\$ 30,041	\$ 30,344	\$ 30,651
Hackley Debt	0.45320	\$ -	\$ 383	\$ 6,332	\$ 19,021	\$ 23,780	\$ 27,349	\$ 39,245	\$ 39,642	\$ 40,042	\$ 40,447	\$ 40,856
MPS Debt - 1995	3.86000	\$ -	\$ 3,266	\$ 53,929	\$ 162,009	\$ 202,539	\$ 232,936	\$ 334,261	\$ 337,639	\$ 341,050	\$ 344,495	\$ 347,975
MPS Debt - 2009	3.50000	\$ -	\$ 2,962	\$ 48,899	\$ 146,899	\$ 183,649	\$ 211,212	\$ 303,087	\$ 306,149	\$ 309,242	\$ 312,366	\$ 315,522
Total Non-Capturable Taxes	8.1532	\$ -	\$ 6,899	\$ 113,910	\$ 342,200	\$ 427,808	\$ 492,015	\$ 706,036	\$ 713,170	\$ 720,375	\$ 727,653	\$ 735,003

¹Assumes 1% annual increase for inflation

Total Tax Increment Revenue (TIR) Available for Capture	\$ -	\$ 45,951	\$ 758,686	\$ 2,279,186	\$ 2,849,374	\$ 3,277,015	\$ 4,702,484	\$ 4,750,000	\$ 4,797,990	\$ 4,846,461	\$ 4,895,417
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Notes-

Table 2 assumes incremental annual investment with project completion in 2030.

For the purpose of Table 2 the new taxable value is estimated based on 35% of a total overall investment of \$250,000,000

Table 1 - Estimate of Total Incremental Taxes Available for Capture
 1148 and 1204 West Western Avenue, Muskegon, Muskegon County, Michigan

Estimated Taxable Value (TV) Increase Rate:

Plan Year	11	12	13	14	15	16	17	18	19	20	21	22
Calendar Year	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
Base Taxable Value	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810
Estimated New TV	\$ 91,963,379	\$ 92,883,013	\$ 93,811,843	\$ 94,749,962	\$ 95,697,461	\$ 96,654,436	\$ 97,620,980	\$ 98,597,190	\$ 99,583,162	\$ 100,578,994	\$ 101,584,784	\$ 102,600,631
Incremental Difference (New TV - Base TV) ¹	\$ 91,059,569	\$ 91,979,203	\$ 92,908,033	\$ 93,846,152	\$ 94,793,651	\$ 95,750,626	\$ 96,717,170	\$ 97,693,380	\$ 98,679,352	\$ 99,675,184	\$ 100,680,974	\$ 101,696,821

School Capture	Millage Rate												
State Education Tax (SET)	6.00000	\$ 546,357	\$ 551,875	\$ 557,448	\$ 563,077	\$ 568,762	\$ 574,504	\$ 580,303	\$ 586,160	\$ 592,076	\$ 598,051	\$ 604,086	\$ 610,181
School Operating Tax	17.98380	\$ 1,637,597	\$ 1,654,136	\$ 1,670,839	\$ 1,687,710	\$ 1,704,750	\$ 1,721,960	\$ 1,739,342	\$ 1,756,898	\$ 1,774,630	\$ 1,792,539	\$ 1,810,626	\$ 1,828,895
School Total	23.9838	\$ 2,183,955	\$ 2,206,011	\$ 2,228,288	\$ 2,250,787	\$ 2,273,512	\$ 2,296,464	\$ 2,319,645	\$ 2,343,058	\$ 2,366,706	\$ 2,390,590	\$ 2,414,712	\$ 2,439,076

Local Capture	Millage Rate												
County Museum	0.32200	\$ 29,321	\$ 29,617	\$ 29,916	\$ 30,218	\$ 30,524	\$ 30,832	\$ 31,143	\$ 31,457	\$ 31,775	\$ 32,095	\$ 32,419	\$ 32,746
County Veterans	0.07150	\$ 6,511	\$ 6,577	\$ 6,643	\$ 6,710	\$ 6,778	\$ 6,846	\$ 6,915	\$ 6,985	\$ 7,056	\$ 7,127	\$ 7,199	\$ 7,271
Senior Citizens Services	0.49990	\$ 45,521	\$ 45,980	\$ 46,445	\$ 46,914	\$ 47,387	\$ 47,866	\$ 48,349	\$ 48,837	\$ 49,330	\$ 49,828	\$ 50,330	\$ 50,838
Central Dispatch	0.29999	\$ 27,317	\$ 27,593	\$ 27,871	\$ 28,153	\$ 28,437	\$ 28,724	\$ 29,014	\$ 29,307	\$ 29,603	\$ 29,902	\$ 30,203	\$ 30,508
Community College	2.20340	\$ 200,641	\$ 202,667	\$ 204,714	\$ 206,781	\$ 208,868	\$ 210,977	\$ 213,107	\$ 215,258	\$ 217,430	\$ 219,624	\$ 221,840	\$ 224,079
M.A.I.S.D	4.75410	\$ 432,906	\$ 437,278	\$ 441,694	\$ 446,154	\$ 450,658	\$ 455,208	\$ 459,803	\$ 464,444	\$ 469,132	\$ 473,866	\$ 478,647	\$ 483,477
City Operating	10.07540	\$ 917,462	\$ 926,727	\$ 936,086	\$ 945,538	\$ 955,084	\$ 964,726	\$ 974,464	\$ 984,300	\$ 994,234	\$ 1,004,267	\$ 1,014,401	\$ 1,024,636
City Sanitation	2.99790	\$ 272,987	\$ 275,744	\$ 278,529	\$ 281,341	\$ 284,182	\$ 287,051	\$ 289,948	\$ 292,875	\$ 295,831	\$ 298,816	\$ 301,831	\$ 304,877
Hackley Library	2.39970	\$ 218,516	\$ 220,722	\$ 222,951	\$ 225,203	\$ 227,476	\$ 229,773	\$ 232,092	\$ 234,435	\$ 236,801	\$ 239,191	\$ 241,604	\$ 244,042
MPS Sinking	0.99810	\$ 90,887	\$ 91,804	\$ 92,732	\$ 93,668	\$ 94,614	\$ 95,569	\$ 96,533	\$ 97,508	\$ 98,492	\$ 99,486	\$ 100,490	\$ 101,504
County Operating	5.69780	\$ 518,839	\$ 524,079	\$ 529,371	\$ 534,717	\$ 540,115	\$ 545,568	\$ 551,075	\$ 556,637	\$ 562,255	\$ 567,929	\$ 573,660	\$ 579,448
Local Total	30.3198	\$ 2,760,907	\$ 2,788,790	\$ 2,816,952	\$ 2,845,396	\$ 2,874,124	\$ 2,903,139	\$ 2,932,444	\$ 2,962,043	\$ 2,991,937	\$ 3,022,131	\$ 3,052,626	\$ 3,083,426

Non-Capturable Millages	Millage Rate												
Community College Debt	0.34000	\$ 30,960	\$ 31,273	\$ 31,589	\$ 31,908	\$ 32,230	\$ 32,555	\$ 32,884	\$ 33,216	\$ 33,551	\$ 33,890	\$ 34,232	\$ 34,577
Hackley Debt	0.45320	\$ 41,268	\$ 41,685	\$ 42,106	\$ 42,531	\$ 42,960	\$ 43,394	\$ 43,832	\$ 44,275	\$ 44,721	\$ 45,173	\$ 45,629	\$ 46,089
MPS Debt - 1995	3.86000	\$ 351,490	\$ 355,040	\$ 358,625	\$ 362,246	\$ 365,903	\$ 369,597	\$ 373,328	\$ 377,096	\$ 380,902	\$ 384,746	\$ 388,629	\$ 392,550
MPS Debt - 2009	3.50000	\$ 318,708	\$ 321,927	\$ 325,178	\$ 328,462	\$ 331,778	\$ 335,127	\$ 338,510	\$ 341,927	\$ 345,378	\$ 348,863	\$ 352,383	\$ 355,939
Total Non-Capturable Taxes	8.1532	\$ 742,427	\$ 749,925	\$ 757,498	\$ 765,146	\$ 772,872	\$ 780,674	\$ 788,554	\$ 796,514	\$ 804,552	\$ 812,672	\$ 820,872	\$ 829,155

¹Assumes 1% annual increase for inflation

Total Tax Increment Revenue (TIR) Available for Capture	\$ 4,944,862	\$ 4,994,801	\$ 5,045,240	\$ 5,096,183	\$ 5,147,636	\$ 5,199,603	\$ 5,252,090	\$ 5,305,101	\$ 5,358,643	\$ 5,412,720	\$ 5,467,338	\$ 5,522,502
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Notes-

Table 2 assumes incremental annual investment with project completion in 2030.

For the purpose of Table 2 the new taxable value is estimated based on 35% of a total overall investment of \$250,000,000

Table 1 - Estimate of Total Incremental Taxes Available for Capture
 1148 and 1204 West Western Avenue, Muskegon, Muskegon County, Michigan

Estimated Taxable Value (TV) Increase Rate:

Plan Year	23	24	25	26	27	28	29	30	TOTAL
Calendar Year	2044	2045	2046	2047	2048	2049	2050	2051	
Base Taxable Value	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ 903,810	\$ -
Estimated New TV	\$ 103,626,638	\$ 104,662,904	\$ 105,709,533	\$ 106,766,628	\$ 107,834,295	\$ 108,912,638	\$ 110,001,764	\$ 111,101,782	\$ -
Incremental Difference (New TV - Base TV) ¹	\$ 102,722,828	\$ 103,759,094	\$ 104,805,723	\$ 105,862,818	\$ 106,930,485	\$ 108,008,828	\$ 109,097,954	\$ 110,197,972	\$ -

School Capture	Millage Rate									
State Education Tax (SET)	6.00000	\$ 616,337	\$ 622,555	\$ 628,834	\$ 635,177	\$ 641,583	\$ 648,053	\$ 654,588	\$ 661,188	\$ 15,709,744
School Operating Tax	17.98380	\$ 1,847,347	\$ 1,865,983	\$ 1,884,805	\$ 1,903,816	\$ 1,923,016	\$ 1,942,409	\$ 1,961,996	\$ 1,981,778	\$ 47,086,816
School Total	23.9838	\$ 2,463,684	\$ 2,488,537	\$ 2,513,640	\$ 2,538,993	\$ 2,564,599	\$ 2,590,462	\$ 2,616,584	\$ 2,642,966	\$ 62,796,559

Local Capture	Millage Rate									
County Museum	0.32200	\$ 33,077	\$ 33,410	\$ 33,747	\$ 34,088	\$ 34,432	\$ 34,779	\$ 35,130	\$ 35,484	\$ 843,090
County Veterans	0.07150	\$ 7,345	\$ 7,419	\$ 7,494	\$ 7,569	\$ 7,646	\$ 7,723	\$ 7,801	\$ 7,879	\$ 187,208
Senior Citizens Services	0.49990	\$ 51,351	\$ 51,869	\$ 52,392	\$ 52,921	\$ 53,455	\$ 53,994	\$ 54,538	\$ 55,088	\$ 1,308,883
Central Dispatch	0.29999	\$ 30,816	\$ 31,127	\$ 31,441	\$ 31,758	\$ 32,078	\$ 32,402	\$ 32,728	\$ 33,058	\$ 785,461
Community College	2.20340	\$ 226,339	\$ 228,623	\$ 230,929	\$ 233,258	\$ 235,611	\$ 237,987	\$ 240,386	\$ 242,810	\$ 5,769,142
M.A.I.S.D	4.75410	\$ 488,355	\$ 493,281	\$ 498,257	\$ 503,282	\$ 508,358	\$ 513,485	\$ 518,663	\$ 523,892	\$ 12,447,616
City Operating	10.07540	\$ 1,034,974	\$ 1,045,414	\$ 1,055,960	\$ 1,066,610	\$ 1,077,367	\$ 1,088,232	\$ 1,099,206	\$ 1,110,289	\$ 26,380,326
City Sanitation	2.99790	\$ 307,953	\$ 311,059	\$ 314,197	\$ 317,366	\$ 320,567	\$ 323,800	\$ 327,065	\$ 330,362	\$ 7,849,374
Hackley Library	2.39970	\$ 246,504	\$ 248,991	\$ 251,502	\$ 254,039	\$ 256,601	\$ 259,189	\$ 261,802	\$ 264,442	\$ 6,283,112
MPS Sinking	0.99810	\$ 102,528	\$ 103,562	\$ 104,607	\$ 105,662	\$ 106,727	\$ 107,804	\$ 108,891	\$ 109,989	\$ 2,613,316
County Operating	5.69780	\$ 585,294	\$ 591,199	\$ 597,162	\$ 603,185	\$ 609,269	\$ 615,413	\$ 621,618	\$ 627,886	\$ 14,918,497
Local Total	30.3198	\$ 3,114,535	\$ 3,145,954	\$ 3,177,688	\$ 3,209,738	\$ 3,242,110	\$ 3,274,805	\$ 3,307,827	\$ 3,341,179	\$ 79,386,023

Non-Capturable Millages	Millage Rate									
Community College Debt	0.34000	\$ 34,926	\$ 35,278	\$ 35,634	\$ 35,993	\$ 36,356	\$ 36,723	\$ 37,093	\$ 37,467	\$ 890,219
Hackley Debt	0.45320	\$ 46,554	\$ 47,024	\$ 47,498	\$ 47,977	\$ 48,461	\$ 48,950	\$ 49,443	\$ 49,942	\$ 1,186,609
MPS Debt - 1995	3.86000	\$ 396,510	\$ 400,510	\$ 404,550	\$ 408,630	\$ 412,752	\$ 416,914	\$ 421,118	\$ 425,364	\$ 10,106,602
MPS Debt - 2009	3.50000	\$ 359,530	\$ 363,157	\$ 366,820	\$ 370,520	\$ 374,257	\$ 378,031	\$ 381,843	\$ 385,693	\$ 9,164,017
Total Non-Capturable Taxes	8.1532	\$ 837,520	\$ 845,969	\$ 854,502	\$ 863,121	\$ 871,826	\$ 880,618	\$ 889,497	\$ 898,466	\$ 21,347,447

¹Assumes 1% annual increase for inflation

Total Tax Increment Revenue (TIR) Available for Capture	\$ 5,578,218	\$ 5,634,491	\$ 5,691,327	\$ 5,748,731	\$ 5,806,709	\$ 5,865,267	\$ 5,924,411	\$ 5,984,145	#####
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Notes-

Table 2 assumes incremental annual investment with project completion in 2030.

For the purpose of Table 2 the new taxable value is estimated based on 35% of a total overall investment of \$250,000,000

Table 2

Tax Increment Revenue Reimbursement Allocation

**Table 2 - Estimate of Total Incremental Taxes Available for Reimbursement
1148 1204 West Western Avenue, Muskegon, Muskegon County, Michigan**

Developer Maximum Reimbursement		School & Local Taxes	
State	\$ 178,977		
Local	66,596,401		
TOTAL	\$66,775,378		
EGLE	N/A		
MSF	N/A		

Estimated Years of Capture: 30 years (including 5 years for LBF capture)																									
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042			
Total State Incremental Revenue	\$ -	\$ 20,295	\$ 335,082	\$ 1,006,629	\$ 1,258,459	\$ 1,447,331	\$ 2,076,906	\$ 2,097,892	\$ 2,119,087	\$ 2,140,495	\$ 2,162,117	\$ 2,183,955	\$ 2,206,011	\$ 2,228,288	\$ 2,250,787	\$ 2,273,512	\$ 2,296,464	\$ 2,319,645	\$ 2,343,058	\$ 2,366,706	\$ 2,390,590	\$ 2,414,712			
State Brownfield Redevelopment Fund (50% of SET)	\$ -	\$ -	\$ 2,539	\$ 41,914																					
State TIR Available for Reimbursement	\$ -	\$ 17,756	\$ 293,169	\$ 1,006,629	\$ 1,258,459	\$ 1,447,331	\$ 2,076,906	\$ 2,097,892	\$ 2,119,087	\$ 2,140,495	\$ 2,162,117	\$ 2,183,955	\$ 2,206,011	\$ 2,228,288	\$ 2,250,787	\$ 2,273,512	\$ 2,296,464	\$ 2,319,645	\$ 2,343,058	\$ 2,366,706	\$ 2,390,590	\$ 2,414,712			
Total Local Incremental Revenue	\$ -	\$ 25,656	\$ 423,604	\$ 1,272,558	\$ 1,590,915	\$ 1,829,684	\$ 2,625,578	\$ 2,652,108	\$ 2,678,903	\$ 2,705,966	\$ 2,733,300	\$ 2,760,907	\$ 2,788,790	\$ 2,816,952	\$ 2,845,396	\$ 2,874,124	\$ 2,903,139	\$ 2,932,444	\$ 2,962,043	\$ 2,991,937	\$ 3,022,131	\$ 3,052,626			
BRA Administrative Fee	\$ -	\$ 500	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000			
Local TIR Available for Reimbursement	\$ -	\$ 25,156	\$ 413,604	\$ 1,262,558	\$ 1,580,915	\$ 1,819,684	\$ 2,615,578	\$ 2,642,108	\$ 2,668,903	\$ 2,695,966	\$ 2,723,300	\$ 2,750,907	\$ 2,778,790	\$ 2,806,952	\$ 2,835,396	\$ 2,864,124	\$ 2,893,139	\$ 2,922,444	\$ 2,952,043	\$ 2,981,937	\$ 3,012,131	\$ 3,042,626			
Total State & Local TIR Available	\$ -	\$ 42,913	\$ 706,772	\$ 2,269,186	\$ 2,839,374	\$ 3,267,015	\$ 4,692,484	\$ 4,740,000	\$ 4,787,990	\$ 4,836,461	\$ 4,885,417	\$ 4,934,862	\$ 4,984,801	\$ 5,035,240	\$ 5,086,183	\$ 5,137,636	\$ 5,189,603	\$ 5,242,090	\$ 5,295,101	\$ 5,348,643	\$ 5,402,720	\$ 5,457,338			

DEVELOPER	Beginning Balance	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Developer Reimbursement Balance	\$ -	\$ -	\$ 915,624	\$ 5,071,705	\$ 14,816,198	\$ 19,116,098	\$ 22,741,220	\$ 32,776,007	\$ 34,414,807	\$ 35,890,364	\$ 34,854,118	\$ 33,737,359	\$ 32,535,775	\$ 31,244,833	\$ 29,859,775	\$ 28,375,599	\$ 26,787,049	\$ 25,088,606	\$ 23,274,470	\$ 21,338,548	\$ 19,274,442	\$ 17,075,427	\$ 14,734,441

Pre-Approved Environmental Costs	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
State Tax Reimbursement	\$ 350,000	\$ -	\$ 350,000	\$ 322,442	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Local Tax Reimbursement	\$ 178,977	\$ -	\$ 17,756	\$ 161,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Local Tax Reimbursement	\$ 186,377	\$ -	\$ 25,156	\$ 161,221	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest (5%)	\$ 15,354	\$ -	\$ 15,354	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total EGLE Reimbursement Balance	\$ -	\$ -	\$ 322,442	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Local Only Costs	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	
Local Tax Reimbursement	\$ 28,246,750	\$ -	\$ 564,935	\$ 4,830,195	\$ 14,110,665	\$ 18,205,808	\$ 21,658,305	\$ 31,215,245	\$ 32,776,007	\$ 34,414,807	\$ 35,890,364	\$ 34,854,118	\$ 33,737,359	\$ 32,535,775	\$ 31,244,833	\$ 29,859,775	\$ 28,375,599	\$ 26,787,049	\$ 25,088,606	\$ 23,274,470	\$ 21,338,548	\$ 19,274,442	\$ 17,075,427
Local Tax Reimbursement	\$ 53,801,403	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 233,508	\$ 2,695,966	\$ 2,723,300	\$ 2,750,907	\$ 2,778,790	\$ 2,806,952	\$ 2,835,396	\$ 2,864,124	\$ 2,893,139	\$ 2,922,444	\$ 2,952,043	\$ 2,981,937	\$ 3,012,131	\$ 3,042,626
Interest (5%)	\$ 25,554,653	\$ -	\$ 28,247	\$ 241,510	\$ 705,533	\$ 910,290	\$ 1,082,915	\$ 1,560,762	\$ 1,638,800	\$ 1,709,065	\$ 1,659,720	\$ 1,606,541	\$ 1,549,323	\$ 1,487,849	\$ 1,421,894	\$ 1,351,219	\$ 1,275,574	\$ 1,194,696	\$ 1,108,308	\$ 1,016,121	\$ 917,831	\$ 813,116	\$ 701,640
Total Local Only Reimbursement Balance	\$ -	\$ -	\$ 593,182	\$ 5,071,705	\$ 14,816,198	\$ 19,116,098	\$ 22,741,220	\$ 32,776,007	\$ 34,414,807	\$ 35,890,364	\$ 34,854,118	\$ 33,737,359	\$ 32,535,775	\$ 31,244,833	\$ 29,859,775	\$ 28,375,599	\$ 26,787,049	\$ 25,088,606	\$ 23,274,470	\$ 21,338,548	\$ 19,274,442	\$ 17,075,427	\$ 14,734,441
Total Annual Developer Reimbursement	\$ -	\$ 42,912	\$ 322,442	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 233,508	\$ 2,695,966	\$ 2,723,300	\$ 2,750,907	\$ 2,778,790	\$ 2,806,952	\$ 2,835,396	\$ 2,864,124	\$ 2,893,139	\$ 2,922,444	\$ 2,952,043	\$ 2,981,937	\$ 3,012,131	\$ 3,042,626

CITY OF MUSKEGON BONDED ACTIVITIES	Beginning Balance	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
City of Muskegon Bond Reimbursement Balance	\$ -	\$ -	\$ 10,500,000	\$ 10,759,998	\$ 9,972,313	\$ 8,810,967	\$ 7,340,848	\$ 4,961,532	\$ 2,435,395	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Local Only Costs	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Local Tax Reimbursement	\$ 10,000,000	\$ -	\$ 10,000,000	\$ 10,500,000	\$ 10,759,998	\$ 9,972,313	\$ 8,810,967	\$ 7,340,848	\$ 4,961,532	\$ 2,435,395	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Local Tax Reimbursement	\$ 12,608,621	\$ -	\$ -	\$ 252,383	\$ 1,262,558	\$ 1,580,915	\$ 1,819,684	\$ 2,615,578	\$ 2,642,108	\$ 2,435,395	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest (5%)	\$ 2,608,621	\$ -	\$ 500,000	\$ 512,381	\$ 474,872	\$ 419,570	\$ 349,564	\$ 236,269	\$ 115,971	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Local Only Reimbursement Balance	\$ 10,000,000	\$ -	\$ 10,500,000	\$ 10,759,998	\$ 9,972,313	\$ 8,810,967	\$ 7,340,848	\$ 4,961,532	\$ 2,435,395	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Annual City of Muskegon Reimbursement	\$ -	\$ -	\$ 252,383	\$ 1,262,558	\$ 1,580,915	\$ 1,819,684	\$ 2,615,578	\$ 2,642,108	\$ 2,435,395	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

LOCAL BROWNFIELD REVOLVING FUND	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
LBRF Deposits*	\$ 178,977	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
State Tax Capture	\$ 12,499,122	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Local Tax Capture	\$ 12,678,099	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total LBRF Capture	\$ 25,355,198	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

* Up to five years of capture for LBRF Deposits after eligible activities are reimbursed. May be taken from Local TIR only.

**Table 2 - Estimate of Total Incremental Taxes Available for Reimbursement
1148 1204 West Western Avenue, Muskegon, Muskegon County, Michigan**

	2043	2044	2045	2046	2047	2048	2049	2050	2051	TOTAL
Total State Incremental Revenue	\$ 2,439,076	\$ 2,463,684	\$ 2,488,537	\$ 2,513,640	\$ 2,538,993	\$ 2,564,599	\$ 2,590,462	\$ 2,616,584	\$ 2,642,966	\$ 62,796,559
State Brownfield Redevelopment Fund (50% of SET)						\$ 320,791				\$ 365,244
State TIR Available for Reimbursement	\$ 2,439,076	\$ 2,463,684	\$ 2,488,537	\$ 2,513,640	\$ 2,538,993	\$ 2,243,808	\$ 2,590,462	\$ 2,616,584	\$ 2,642,966	\$ 39,893,567
Total Local Incremental Revenue	\$ 3,083,426	\$ 3,114,535	\$ 3,145,954	\$ 3,177,688	\$ 3,209,738	\$ 3,242,110	\$ 3,274,805	\$ 3,307,827	\$ 3,341,179	\$ 79,386,023
BRA Administrative Fee	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 290,500
Local TIR Available for Reimbursement	\$ 3,073,426	\$ 3,104,535	\$ 3,135,954	\$ 3,167,688	\$ 3,199,738	\$ 3,232,110	\$ 3,264,805	\$ 3,297,827	\$ 3,331,179	\$ 79,095,523
Total State & Local TIR Available	\$ 5,512,502	\$ 5,568,218	\$ 5,624,491	\$ 5,681,327	\$ 5,738,731	\$ 5,475,918	\$ 5,855,267	\$ 5,914,411	\$ 5,974,145	\$ 141,526,839
DEVELOPER										
Developer Reimbursement Balance	\$ 12,244,066	\$ 9,596,509	\$ 6,783,583	\$ 3,796,690	\$ 626,800	\$ -	\$ -	\$ -	\$ -	\$ -
Pre-Approved Environmental Costs										
State Tax Reimbursement										\$ 178,977
Local Tax Reimbursement										\$ 186,377
Interest (5%)										\$ 15,354
Total EGLE Reimbursement Balance										\$ -
Local Only Costs										
Local Tax Reimbursement	\$ 3,073,426	\$ 3,104,535	\$ 3,135,954	\$ 3,167,688	\$ 3,199,738	\$ 626,800				\$ 53,801,403
Interest (5%)	\$ 583,051	\$ 456,977	\$ 323,028	\$ 180,795	\$ 29,848	\$ -				\$ 25,554,653
Total Local Only Reimbursement Balance	\$ 12,244,066	\$ 9,596,509	\$ 6,783,583	\$ 3,796,690	\$ 626,800	\$ -	\$ -	\$ -	\$ -	\$ -
Total Annual Developer Reimbursement	\$ 3,073,426	\$ 3,104,535	\$ 3,135,954	\$ 3,167,688	\$ 3,199,738	\$ 626,800	\$ -	\$ -	\$ -	\$ 54,166,757
CITY OF MUSKEGON BONDED ACTIVITIES										
City of Muskegon Bond Reimbursement Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Local Only Costs										
Local Tax Reimbursement										\$ 12,608,621
Interest (5%)										\$ 2,608,621
Total Local Only Reimbursement Balance										\$ -
Total Annual City of Muskegon Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,608,621
LOCAL BROWNFIELD REVOLVING FUND										
LBRF Deposits *										
State Tax Capture						\$ 178,977				\$ 178,977
Local Tax Capture						\$ 2,605,310	\$ 3,264,805	\$ 3,297,827	\$ 3,331,179	\$ 12,499,122
Total LBRF Capture						\$ 2,784,287	\$ 3,264,805	\$ 3,297,827	\$ 3,331,179	\$ 12,678,099

Estimated Developer Capture	\$ 54,166,757
Estimated City of Muskegon Capture	\$ 12,608,621
BRA Administrative Fee	\$ 290,500
State Brownfield Redevelopment Fund	\$ 365,244
Local Brownfield Revolving Fund	\$ 12,678,099

* Up to five years of capture for LBRF Deposits after eligible activities are reimbursed. May be taken from Local TIR only.

Attachment A

Conceptual Renderings



SHEET NOTES:

- C** COMMERCIAL BUILDINGS
 - C1 ADELAIDE POINTE OFFICES
 - C2 LIGHT INDUSTRY
 - C3 WAREHOUSING / BOAT STORAGE
 - C4 WAREHOUSING / BOAT STORAGE
 - C5 MIXED USE/WATER-BASED SERVICES
 - C6 MIXED USE/WATER-BASED SERVICES
 - C7 WAREHOUSING / BOAT STORAGE
 - C8 WAREHOUSING / BOAT STORAGE
 - C9 WAREHOUSING / BOAT STORAGE

- R** RESIDENTIAL BUILDINGS
 - R1 CONDOMINIUM BUILDING
 - R2 CONDOMINIUM / COMMERCIAL
 - R3 CONDOMINIUM / COMMERCIAL
 - R4 CONDOMINIUM BUILDING
 - R5 CONDOMINIUM BUILDING
 - R6 APARTMENT BUILDING

- B** MIXED USE BUILDING / AMENITIES
 - B1 SALES / RETAIL / RESTAURANT
 - B2 BAR / GRILL
 - B3 BOATER SERVICES
 - B4 RESTROOMS / PAVILION
 - B5 POOL

- M** MARINA / MARINA SERVICES
 - M1 WET SLIP MARINA
 - M2 TRANSIENT SLIPS
 - M3 SLIP ACCESS POINT
 - M4 ROCK GROINS
 - M5 SLIP WELL / RAMPS
 - M6 FUEL DOCKS

- A** PUBLIC AMENITIES
 - A1 BIKE & PEDESTRIAN TRAILS
 - A2 WEST POINT PARK
 - A3 LINEAR PARKS
 - A4 EAST BASIN PARK
 - A5 FISHING PIER
 - A6 BIKE RACKS
 - A7 PAVILIONS
 - A8 EVENT LAWN
 - A9 ON STREET PARKING
 - A10 OFF STREET PARKING
 - A11 RESTROOMS
 - A12 PARKING GARAGE ACCESS

Project :



ADELAIDE POINTE
 1204 WEST WESTERN AVENUE
 MUSKEGON, MI 49441
 P: (855) MKG-LAKE
<https://www.adelaidepointe.com>

Consultants:



518 BROAD STREET
 SAINT JOSEPH, MI 49085
 P: (269) 932.4502
www.edgewaterresources.com



1609 PINERIDGE DR
 GRAND HAVEN, MI 49417
 P: (616) 843-1002
www.architekturapsc.com/

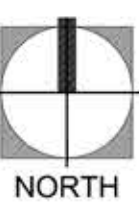


KA
 ORB + ASSOCIATES ARCHITECTS
 648 N. PLANKINTON AVE.
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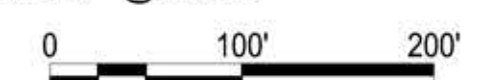
SITE LOCATION:



Date: 9/22/2021
 Project No: 21-004



Scale: 1"=100'-0" @ 24x36



Seal:

Project Phase: PUD SUBMITTAL

Sheet Title: ILLUSTRATIVE MP

Sheet Number:

V-2.00



Attachment B

Environmental Data Tables and Map

Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Leestma Management, LLC

1148 & 1204 West Western Ave., Muskegon, Muskegon County MI 49441

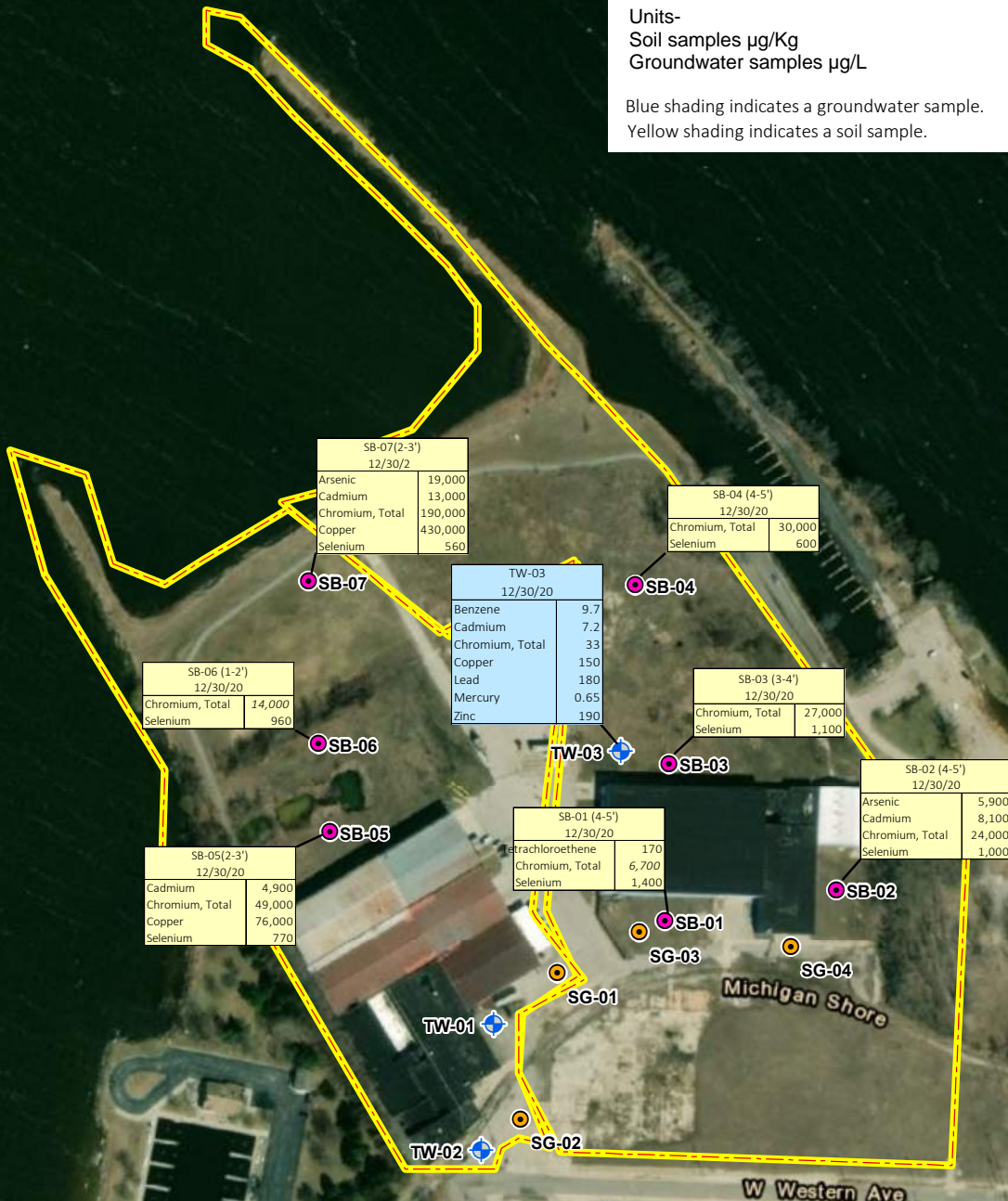
Baseline Environmental Assessment

LEGEND

- Approximate Property Boundary
- Groundwater Sample Location
- Soil Gas Sample Location
- Soil Sample Location

Units-
Soil samples µg/Kg
Groundwater samples µg/L

Blue shading indicates a groundwater sample.
Yellow shading indicates a soil sample.



SAMPLE EXCEEDANCE MAP

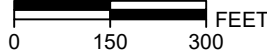


Table 1 - Soil Data Summary

Baseline Environmental Assessment

Leestma Management, LLC, 1148 & 1204 West Western Ave., Muskegon, Muskegon County, MI

December 2020

Sample Location: Depth Interval (ft): Investigative/Field Duplicate/QC: Laboratory ID: Collection Date:	SB-01 (4-5) Investigative 20L0979-01 12/30/20	SB-01 (4-5) Duplicate 20L0979-02 12/30/20	SB-02 (4-5) Investigative 20L0979-03 12/30/20	SB-03 (3-4) Investigative 20L0979-04 12/30/20	SB-04 (4-5) Investigative 20L0979-05 12/30/20	SB-05 (2-3) Investigative 20L0979-06 12/30/20	SB-06 (1-2) Investigative 20L0979-07 12/30/20	SB-07 (2-3) Investigative 20L0979-08 12/30/20	FB-01 QC 20L0979-09 12/30/20	Statewide Default Background Levels ⁽¹⁾	Drinking Water Protection Criteria ⁽¹⁾	GSIP Criteria ⁽¹⁾	Soil Volatilization to Indoor Air Inhalation Criteria ⁽¹⁾	Infinite Source VSIC ⁽¹⁾	Finite VSIC for 5 Meter Source Thickness ⁽¹⁾	Finite VSIC for 2 Meter Source Thickness ⁽¹⁾	Particulate Soil Inhalation Criteria ⁽¹⁾	Direct Contact Criteria ⁽¹⁾	Soil Saturation Concentration SL ⁽¹⁾	
Volatiles Organic Compounds	CAS Number																			
Tetrachloroethene	127-18-4	170	150	58 U	57 U	50 U	50 U	61 U	50 U	50 U	NA	100	1,200 (X)	11,000	1.70E+05	4.80E+05	1.10E+06	2.70E+09	2.00E+05 (C)	88,000
Polynuclear Aromatic Compounds	CAS Number																			
Benzo(a)pyrene	50-32-8	330 U	330 U	350	330 UJ	330 U	330 U	330 UJ	430	--	NA	NLL	NLV	NLV	NLV	NLV	1.50E+06	2,000	NA	
Benzo(b)fluoranthene	205-99-2	330 U	400	550	330 UJ	330 U	330 U	330 UJ	520	--	NA	NLL	ID	ID	ID	ID	ID	20,000	NA	
Metals, Total	CAS Number																			
Arsenic (B)	7440-38-2	4,000 J	3,600	5,900	2,000 U	3,500	4,900	2,000 U	19,000	--	5,800	4,600	4,600	NLV	NLV	NLV	NLV	7.20E+05	7,600	NA
Barium (B)	7440-39-3	15,000	18,000	10,000	15,000	23,000	16,000	11,000	100,000	--	75,000	1.30E+06	4.40E+05 (G)	NLV	NLV	NLV	NLV	3.30E+08	3.70E+07	NA
Cadmium (B)	7440-43-9	1,700	1,600	8,100	2,400	3,600	4,900	720	13,000	--	1,200	6,000	3,600 (G,X)	NLV	NLV	NLV	NLV	1.70E+06	5.50E+05	NA
Chromium, Total (B, H)	7440-47-3	6,700	5,900	24,000	27,000	30,000	49,000	14,000	190,000	--	18,000 (total)	30,000	3,300	NLV	NLV	NLV	NLV	2.60E+05	2.50E+06	NA
Copper (B)	7440-50-8	38,000 J	20,000	34,000	34,000	53,000	76,000	12,000	430,000	--	32,000	5.80E+06	75,000 (G)	NLV	NLV	NLV	NLV	1.30E+08	2.00E+07	NA
Lead (B)	7439-92-1	22,000	20,000	34,000	27,000	19,000	20,000	12,000	66,000	--	21,000	7.00E+05	5.10E+06 (G,X)	NLV	NLV	NLV	NLV	1.00E+08	4.00E+05	NA
Mercury (Total) (B)	7439-97-6	50 U	50 U	50 U	57	50 U	64	50 U	50 U	--	130	1,700	50 (M); 1.2	48,000	52,000	52,000	52,000	2.00E+07	1.60E+05	NA
Selenium (B)	7782-49-2	1,400	1,400	1,000	1,100	600	770	960	560	--	410	4,000	400	NLV	NLV	NLV	NLV	1.30E+08	2.60E+06	NA
Silver (B)	7440-22-4	490 U	470 U	490 U	490 U	490 U	460 U	470 U	430 U	--	1,000	4,500	100 (M); 27	NLV	NLV	NLV	NLV	6.70E+06	2.50E+06	NA
Zinc (B)	7440-66-6	15,000	14,000	23,000	47,000	40,000	62,000	33,000	74,000	--	47,000	2.40E+06	1.70E+05 (G)	NLV	NLV	NLV	NLV	ID	1.70E+08	NA
Solids, Total (%)	--	90	91	88	89	89	90	87	92	--	--	--	--	--	--	--	--	--	--	--

Results expressed in µg/kg dry weight (except for FB-01, which is µg/kg wet weight).

Bolded values exceed Statewide Default Background Level and an applicable criterion or screening level.

Italicized values are below Statewide Default Background Level but exceed an applicable criterion or screening level.

Underlined parameters are classified as Polynuclear Aromatic Compounds.

Data Qualifiers:

- J Estimated value
- U Not detected

Footnotes/Abbreviations:

⁽¹⁾ Part 201 Residential Soil Generic Cleanup Criteria and Screening Levels/Part 213 Risk-based Screening Levels, December 30, 2013 (GSI Criteria Updated June 25, 2018).

⁽²⁾ EGLE Volatilization to Indoor Air Pathway Screening Levels, September 4, 2020.

- (B) Background, as defined in R 299.5701(b), may be substituted if higher than the calculated criterion.
- (C) Value is screening level based on the chemical-specific generic soil saturation concentration (C_{sat}).
- (G) Criterion dependent on receiving surface water (SW) hardness; calculated criteria based on water hardness of 150 mg/L.
- (H) Data provided for total chromium only; evaluated against hexavalent chromium criteria.
- (J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations must be added together for comparison to criteria.
- (JT) Hazardous substance may be present in several isomer forms. The VIAP SL may be used for the individual isomer provided that it is the sole isomer detected; however, when multiple isomers are detected in a medium, the isomer-specific concentrations must be added together and compared to the most restrictive VIAP SL of the detected isomers.
- (M) Calculated criterion is below the target detection limit (TDL); first number is the criterion (TDL), the second is the risk-based value.
- (M*) The VIAP SL may be below TDL. In accordance with Sec. 20120a(10) when the TDL for a hazardous substance is greater than the developed VIAP SL, the TDL is used to evaluate the risk posed from the pathway.
- (W) Concentrations of trihalomethanes must be added together to determine compliance with criterion.
- (X) Criterion is not protective for SW used as a drinking water (DW) source.
- (DD) Hazardous substance causes developmental effects. Residential VIAP SLs are protective of both prenatal exposure using a pregnant female receptor and postnatal exposure using a child receptor. Prenatal developmental effects may occur after an acute (i.e. short-term) or full-term exposure.
- (EE) The acceptable air concentration (AAC) for the volatile hazardous substances is not derived using standard equations. The hazardous substance may cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The AAC for these hazardous substances is the acute or intermediate minimum risk level (MRL) developed by the Agency for Toxic Substances and Disease Registry (ATSDR), a USEPA Integrated Risk Information System (IRIS) acute reference concentration, or an acute initial threshold screening level (ITS_L) by the EGLE's Air Quality Division.
- (MM) Hazardous substance is a carcinogen with a mutagenic mode of action. The cancer potency values used in calculating VIAP SLs are modified using age-dependent adjustment factors for those carcinogenic chemicals identified as mutagenic.
- DATA Insufficient physical chemical parameters to calculate a VIAP SL for specified media. If detections are present in specified media, health-based soil vapor value should be used to evaluate risk.
- GSIP groundwater surface water interface protection
- ID Insufficient data to develop criterion.
- NA not available
- NLL Not likely to leach under most soil conditions.
- NLV Not likely to volatilize under most conditions.
- SL screening level
- VIAP volatilization to indoor air pathway
- VSIC volatile soil inhalation criteria

Table 2 - Groundwater Data Summary

Baseline Environmental Assessment

Leestma Management, LLC, 1148 & 1204 West Western Ave., Muskegon, Muskegon County, MI

December 2020

Monitoring Location: Field Duplicate: Laboratory ID: Collection Date:		TW-01	TW-02	TW-03	TW-03 Duplicate	TB-01	Residential DWC ⁽¹⁾	GSI Criteria ⁽¹⁾	Residential Groundwater VIAIC ⁽¹⁾	Water Solubility ⁽¹⁾	Flammability and Explosivity SL ⁽¹⁾
		20L0979-10 12/30/20	20L0979-11 12/30/20	20L0979-12 12/30/20	20L0979-14 12/30/20	20L0979-15 12/30/20					
Volatiles Organic Compounds	CAS Number										
Benzene	71-43-2	1 U	1 U	9.7	9.9	1 U	5.0	200 (X)	5,600	1.75E+06	68,000
Polychlorinated Biphenyls	CAS Number										
Total PCBs (J)	1336-36-3	0.2 U	0.2 U	0.2 UJ	0.2 UJ	--	0.50	0.20 (M); 2.60E-05	45 (S)	44.7	ID
Metals, Total	CAS Number										
Arsenic (B)	7440-38-2	5 U	5 U	7.7	7.9	--	10	10	NLV	NA	ID
Barium (B)	7440-39-3	100 U	100 U	220	240	--	2,000	670 (G)	NLV	NA	ID
Cadmium (B)	7440-43-9	1 U	1 U	7.2	7.3	--	5.0	3.0 (G,X)	NLV	NA	ID
Chromium, Total (B, H)	7440-47-3	10 U	10 U	33	34	--	100	11	NLV	NA	ID
Copper (B)	7440-50-8	5 U	5 U	150	150	--	1,000 (E)	13 (G)	NLV	NA	ID
Lead (B)	7439-92-1	3 U	3 U	180	180	--	4.0 (L)	34 (G,X)	NLV	NA	ID
Mercury (B)	7439-97-6	0.2 U	0.2 U	0.65	0.61	--	2.0	0.0013	56 (S)	56	ID
Selenium (B)	7782-49-2	5 U	5 U	5 U	5 U	--	50	5.0	NLV	NA	ID
Silver (B)	7440-22-4	1 U	1 U	1 U	1 U	--	34	0.20 (M); 0.060	NLV	NA	ID
Zinc (B)	7440-66-6	50 U	50 U	190	190	--	2,400	170 (G)	NLV	NA	ID

Results expressed in µg/L.

Bolded values exceed an applicable criterion and/or screening level.

Underlined compounds classified as polynuclear aromatic compounds.

Data Qualifiers:

- J Estimated value
- U Not detected above the given limit

Footnotes/Abbreviations:

⁽¹⁾ Part 201 Groundwater Generic Cleanup Criteria/Part 213 Tier 1 Risk-based Screening Levels, January 10, 2018 (GSI Criteria Updated June 25, 2018).

⁽²⁾ EGLE Volatilization to Indoor Air Pathway Screening Levels, September 4, 2020.

- (B) Background, as defined in R 299.5701(b), may be substituted if higher than the calculated criterion.
- (E) Aesthetic drinking water (DW) value. Notice of aesthetic impact may be employed as an institutional control if concentration exceeds the aesthetic DWC but not the health-based DW value.
- (G) Criterion dependent on receiving surface water (SW) hardness; calculated criteria based on water hardness of 150 mg/L.
- (H) Data provided for total Chromium only; compare to hexavalent Chromium criteria.
- (J) Substance present in several isomer forms; isomer concentrations must be added together for comparison to criteria.
- (JT) Substance present in several isomer forms. The VIAP SL may be used for the individual isomer provided that it is sole isomer detected; however, when multiple isomers are detected in a medium,
- (L) Concentrations up to the State action level of 15 µg/L may still allow for DW use if soil concentrations are below 400 mg/Kg.
- (M) Calculated criterion is below the target detection limit (TDL); first number is the criterion (TDL), the second is the risk-based value.
- (M*) The VIAP SL may be below target detection limits (TDL). In accordance with Sec. 20120a(10) when the TDL for a hazardous substance is greater than the developed VIAP SL, the TDL is used to
- (S) Criterion defaults to the hazardous substance-specific water solubility limit.
- (W) Concentrations of trihalomethanes must be added together to determine compliance with the DWC.
- (X) Criterion is not protective for SW used as a DW source.
- (AA) Use 10,000 µg/L where GW enters a structure through the use of a water well, sump or other device. Use 28,000 µg/L for all other uses.
- (CC) Insufficient chemical-physical input parameters have been identified to allow the development of a VIAP SL using standard equations. The VIAP SL for GW is developed based solely on the approach that the department uses for shallow GW. If GW detections are present, soil vapor may be the most appropriate media to evaluate risk.
- (DD) Hazardous substance causes developmental effects. Residential VIAP SLs are protective of both prenatal exposure using a pregnant female receptor and postnatal exposure using a child receptor. Prenatal developmental effects may occur after an acute (i.e. short-term) or full-term exposure.
- (EE*) The acceptable air concentration (AAC) for the volatile hazardous substance is not derived using standard equations. The hazardous substance may cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The AAC for this hazardous substance is the acute or intermediate minimum risk level (MRL) developed by the Agency for Toxic Substances and Disease Registry (ATSDR), a USEPA Integrated Risk Information System (IRIS) acute reference concentration, or an acute initial
- (FF*) The AAC for the volatile hazardous substances are based on toxicity values that have been identified to have the potential to cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The short-term exposure for shallow groundwater VIAP SLs are based on modification of the standard equations by the department to develop applicable shallow groundwater VIAP SLs.
- (MM) Hazardous substance is a carcinogen with a mutagenic mode of action. The cancer potency values used in calculating VIAP SLs are modified using age-dependent adjustment factors for those carcinogenic chemicals identified as mutagenic.
- DWC drinking water criterion
- GSI groundwater surface water interface
- ID Insufficient data to develop criterion.
- NA not available
- NLV Not likely to volatilize under most conditions.
- SL screening level
- TX The Remediation and Redevelopment Division Toxicology Unit has not identified an inhalation toxicity value for the hazardous substance at the date of publication of these values.
- VIAIC volatilization to indoor air inhalation criteria
- VIAP volatilization to indoor air pathway

Attachment B

Conceptual Renderings



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Attachment C

Environmental Data Tables and Map

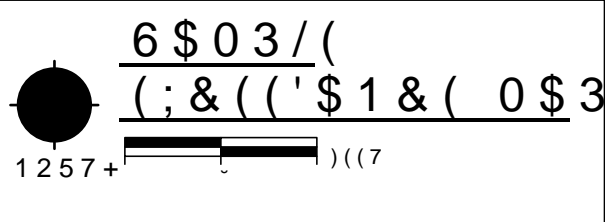
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Engineers | Architects | Scientists | Constructors

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GenTech, Haste, IFC, BIM, DMSA, LOGS, EGA, NPS, US Const 6 * 6 1335(126 86
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Soil Data Summary

Baseline Environmental Assessment

Leestma Management, LLC, 1148 & 1204 West Western Ave., Muskegon, Muskegon County, MI

December 2020

Sample Location: Depth Interval (ft): Investigative/Field Duplicate/QC: Laboratory ID: Collection Date:	SB-01 (4-5) Investigative 20L0979-01 12/30/20	SB-01 (4-5) Duplicate 20L0979-02 12/30/20	SB-02 (4-5) Investigative 20L0979-03 12/30/20	SB-03 (3-4) Investigative 20L0979-04 12/30/20	SB-04 (4-5) Investigative 20L0979-05 12/30/20	SB-05 (2-3) Investigative 20L0979-06 12/30/20	SB-06 (1-2) Investigative 20L0979-07 12/30/20	SB-07 (2-3) Investigative 20L0979-08 12/30/20	FB-01 QC 20L0979-09 12/30/20	Statewide Default Background Levels ⁽¹⁾	Drinking Water Protection Criteria ⁽¹⁾	GSIP Criteria ⁽¹⁾	Soil Volatilization to Indoor Air Inhalation Criteria ⁽¹⁾	Infinite Source VSIC ⁽¹⁾	Finite VSIC for 5 Meter Source Thickness ⁽¹⁾	Finite VSIC for 2 Meter Source Thickness ⁽¹⁾	Particulate Soil Inhalation Criteria ⁽¹⁾	Direct Contact Criteria ⁽¹⁾	Soil Saturation Concentration SL ⁽¹⁾	
Volatiles Organic Compounds	CAS Number																			
Tetrachloroethene	127-18-4	170	150	58 U	57 U	50 U	50 U	61 U	50 U	50 U	NA	100	1,200 (X)	11,000	1.70E+05	4.80E+05	1.10E+06	2.70E+09	2.00E+05 (C)	88,000
Polynuclear Aromatic Compounds	CAS Number																			
Benzo(a)pyrene	50-32-8	330 U	330 U	350	330 UJ	330 U	330 U	330 UJ	430	--	NA	NLL	NLV	NLV	NLV	NLV	NLV	1.50E+06	2,000	NA
Benzo(b)fluoranthene	205-99-2	330 U	400	550	330 UJ	330 U	330 U	330 UJ	520	--	NA	NLL	ID	ID	ID	ID	ID	ID	20,000	NA
Metals, Total	CAS Number																			
Arsenic (B)	7440-38-2	4,000 J	3,600	5,900	2,000 U	3,500	4,900	2,000 U	19,000	--	5,800	4,600	4,600	NLV	NLV	NLV	NLV	7.20E+05	7,600	NA
Barium (B)	7440-39-3	15,000	18,000	10,000	15,000	23,000	16,000	11,000	100,000	--	75,000	1.30E+06	4.40E+05 (G)	NLV	NLV	NLV	NLV	3.30E+08	3.70E+07	NA
Cadmium (B)	7440-43-9	1,700	1,600	8,100	2,400	3,600	4,900	720	13,000	--	1,200	6,000	3,600 (G,X)	NLV	NLV	NLV	NLV	1.70E+06	5.50E+05	NA
Chromium, Total (B, H)	7440-47-3	6,700	5,900	24,000	27,000	30,000	49,000	14,000	190,000	--	18,000 (total)	30,000	3,300	NLV	NLV	NLV	NLV	2.60E+05	2.50E+06	NA
Copper (B)	7440-50-8	38,000 J	20,000	34,000	34,000	53,000	76,000	12,000	430,000	--	32,000	5.80E+06	75,000 (G)	NLV	NLV	NLV	NLV	1.30E+08	2.00E+07	NA
Lead (B)	7439-92-1	22,000	20,000	34,000	27,000	19,000	20,000	12,000	66,000	--	21,000	7.00E+05	5.10E+06 (G,X)	NLV	NLV	NLV	NLV	1.00E+08	4.00E+05	NA
Mercury (Total) (B)	7439-97-6	50 U	50 U	50 U	57	50 U	64	50 U	50 U	--	130	1,700	50 (M); 1.2	48,000	52,000	52,000	52,000	2.00E+07	1.60E+05	NA
Selenium (B)	7782-49-2	1,400	1,400	1,000	1,100	600	770	960	560	--	410	4,000	400	NLV	NLV	NLV	NLV	1.30E+08	2.60E+06	NA
Silver (B)	7440-22-4	490 U	470 U	490 U	490 U	490 U	460 U	470 U	430 U	--	1,000	4,500	100 (M); 27	NLV	NLV	NLV	NLV	6.70E+06	2.50E+06	NA
Zinc (B)	7440-66-6	15,000	14,000	23,000	47,000	40,000	62,000	33,000	74,000	--	47,000	2.40E+06	1.70E+05 (G)	NLV	NLV	NLV	NLV	ID	1.70E+08	NA
Solids, Total (%)	--	90	91	88	89	89	90	87	92	--	--	--	--	--	--	--	--	--	--	--

Results expressed in µg/Kg dry weight (except for FB-01, which is µg/Kg wet weight).

Bolded values exceed Statewide Default Background Level and an applicable criterion or screening level.

Italicized values are below Statewide Default Background Level but exceed an applicable criterion or screening level.

Underlined parameters are classified as Polynuclear Aromatic Compounds.

Data Qualifiers:

J Estimated value

U Not detected

Footnotes/Abbreviations:

⁽¹⁾ Part 201 Residential Soil Generic Cleanup Criteria and Screening Levels/Part 213 Risk-based Screening Levels, December 30, 2013 (GSI Criteria Updated June 25, 2018).

⁽²⁾ EGLE Volatilization to Indoor Air Pathway Screening Levels, September 4, 2020.

(B) Background, as defined in R 299.5701(b), may be substituted if higher than the calculated criterion.

(C) Value is screening level based on the chemical-specific generic soil saturation concentration (C_{sat}).

(G) Criterion dependent on receiving surface water (SW) hardness; calculated criteria based on water hardness of 150 mg/L.

(H) Data provided for total chromium only; evaluated against hexavalent chromium criteria.

(J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations must be added together for comparison to criteria.

(JT) Hazardous substance may be present in several isomer forms. The VIAP SL may be used for the individual isomer provided that it is the sole isomer detected; however, when multiple isomers are detected in a medium, the isomer-specific concentrations must be added together and compared to the most restrictive VIAP SL of the detected isomers.

(M) Calculated criterion is below the target detection limit (TDL); first number is the criterion (TDL), the second is the risk-based value.

(M*) The VIAP SL may be below TDL. In accordance with Sec. 20120a(10) when the TDL for a hazardous substance is greater than the developed VIAP SL, the TDL is used to evaluate the risk posed from the pathway.

(W) Concentrations of trihalomethanes must be added together to determine compliance with criterion.

(X) Criterion is not protective for SW used as a drinking water (DW) source.

(DD) Hazardous substance causes developmental effects. Residential VIAP SLs are protective of both prenatal exposure using a pregnant female receptor and postnatal exposure using a child receptor. Prenatal developmental effects may occur after an acute (i.e. short-term) or full-term exposure.

(EE) The acceptable air concentration (AAC) for the volatile hazardous substances is not derived using standard equations. The hazardous substance may cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The AAC for these hazardous substances is the acute or intermediate minimum risk level (MRL) developed by the Agency for Toxic Substances and Disease Registry (ATSDR), a USEPA Integrated Risk Information System (IRIS) acute reference concentration, or an acute initial threshold screening level (ITS₁) by the EGLE's Air Quality Division.

(MM) Hazardous substance is a carcinogen with a mutagenic mode of action. The cancer potency values used in calculating VIAP SLs are modified using age-dependent adjustment factors for those carcinogenic chemicals identified as mutagenic.

DATA Insufficient physical chemical parameters to calculate a VIAP SL for specified media. If detections are present in specified media, health-based soil vapor value should be used to evaluate risk.

GSIP groundwater surface water interface protection

ID Insufficient data to develop criterion.

NA not available

NLL Not likely to leach under most soil conditions.

NLV Not likely to volatilize under most conditions.

SL screening level

VIAP volatilization to indoor air pathway

VSIC volatile soil inhalation criteria

Groundwater Data Summary

Baseline Environmental Assessment

Leestma Management, LLC, 1148 & 1204 West Western Ave., Muskegon, Muskegon County, MI

December 2020

Monitoring Location: Field Duplicate: Laboratory ID: Collection Date:		TW-01	TW-02	TW-03	TW-03 Duplicate	TB-01	Residential DWC ⁽¹⁾	GSI Criteria ⁽¹⁾	Residential Groundwater VIAIC ⁽¹⁾	Water Solubility ⁽¹⁾	Flammability and Explosivity SL ⁽¹⁾
		20L0979-10 12/30/20	20L0979-11 12/30/20	20L0979-12 12/30/20	20L0979-14 12/30/20	20L0979-15 12/30/20					
Volatiles Organic Compounds	CAS Number										
Benzene	71-43-2	1 U	1 U	9.7	9.9	1 U	5.0	200 (X)	5,600	1.75E+06	68,000
Polychlorinated Biphenyls	CAS Number										
Total PCBs (J)	1336-36-3	0.2 U	0.2 U	0.2 UJ	0.2 UJ	--	0.50	0.20 (M); 2.60E-05	45 (S)	44.7	ID
Metals, Total	CAS Number										
Arsenic (B)	7440-38-2	5 U	5 U	7.7	7.9	--	10	10	NLV	NA	ID
Barium (B)	7440-39-3	100 U	100 U	220	240	--	2,000	670 (G)	NLV	NA	ID
Cadmium (B)	7440-43-9	1 U	1 U	7.2	7.3	--	5.0	3.0 (G,X)	NLV	NA	ID
Chromium, Total (B, H)	7440-47-3	10 U	10 U	33	34	--	100	11	NLV	NA	ID
Copper (B)	7440-50-8	5 U	5 U	150	150	--	1,000 (E)	13 (G)	NLV	NA	ID
Lead (B)	7439-92-1	3 U	3 U	180	180	--	4.0 (L)	34 (G,X)	NLV	NA	ID
Mercury (B)	7439-97-6	0.2 U	0.2 U	0.65	0.61	--	2.0	0.0013	56 (S)	56	ID
Selenium (B)	7782-49-2	5 U	5 U	5 U	5 U	--	50	5.0	NLV	NA	ID
Silver (B)	7440-22-4	1 U	1 U	1 U	1 U	--	34	0.20 (M); 0.060	NLV	NA	ID
Zinc (B)	7440-66-6	50 U	50 U	190	190	--	2,400	170 (G)	NLV	NA	ID

Results expressed in µg/L.

Bolded values exceed an applicable criterion and/or screening level.

Underlined compounds classified as polynuclear aromatic compounds.

Data Qualifiers:

- J Estimated value
- U Not detected above the given limit

Footnotes/Abbreviations:

⁽¹⁾ Part 201 Groundwater Generic Cleanup Criteria/Part 213 Tier 1 Risk-based Screening Levels, January 10, 2018 (GSI Criteria Updated June 25, 2018).

⁽²⁾ EGLE Volatilization to Indoor Air Pathway Screening Levels, September 4, 2020.

- (B) Background, as defined in R 299.5701(b), may be substituted if higher than the calculated criterion.
- (E) Aesthetic drinking water (DW) value. Notice of aesthetic impact may be employed as an institutional control if concentration exceeds the aesthetic DWC but not the health-based DW value.
- (G) Criterion dependent on receiving surface water (SW) hardness; calculated criteria based on water hardness of 150 mg/L.
- (H) Data provided for total Chromium only; compare to hexavalent Chromium criteria.
- (J) Substance present in several isomer forms; isomer concentrations must be added together for comparison to criteria.
- (JT) Substance present in several isomer forms. The VIAP SL may be used for the individual isomer provided that it is sole isomer detected; however, when multiple isomers are detected in a medium,
- (L) Concentrations up to the State action level of 15 µg/L may still allow for DW use if soil concentrations are below 400 mg/Kg.
- (M) Calculated criterion is below the target detection limit (TDL); first number is the criterion (TDL), the second is the risk-based value.
- (M*) The VIAP SL may be below target detection limits (TDL). In accordance with Sec. 20120a(10) when the TDL for a hazardous substance is greater than the developed VIAP SL, the TDL is used to
- (S) Criterion defaults to the hazardous substance-specific water solubility limit.
- (W) Concentrations of trihalomethanes must be added together to determine compliance with the DWC.
- (X) Criterion is not protective for SW used as a DW source.
- (AA) Use 10,000 µg/L where GW enters a structure through the use of a water well, sump or other device. Use 28,000 µg/L for all other uses.
- (CC) Insufficient chemical-physical input parameters have been identified to allow the development of a VIAP SL using standard equations. The VIAP SL for GW is developed based solely on the approach that the department uses for shallow GW. If GW detections are present, soil vapor may be the most appropriate media to evaluate risk.
- (DD) Hazardous substance causes developmental effects. Residential VIAP SLs are protective of both prenatal exposure using a pregnant female receptor and postnatal exposure using a child receptor. Prenatal developmental effects may occur after an acute (i.e. short-term) or full-term exposure.
- (EE*) The acceptable air concentration (AAC) for the volatile hazardous substance is not derived using standard equations. The hazardous substance may cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The AAC for this hazardous substance is the acute or intermediate minimum risk level (MRL) developed by the Agency for Toxic Substances and Disease Registry (ATSDR), a USEPA Integrated Risk Information System (IRIS) acute reference concentration, or an acute initial
- (FF*) The AAC for the volatile hazardous substances are based on toxicity values that have been identified to have the potential to cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The short-term exposure for shallow groundwater VIAP SLs are based on modification of the standard equations by the department to develop applicable shallow groundwater VIAP SLs.
- (MM) Hazardous substance is a carcinogen with a mutagenic mode of action. The cancer potency values used in calculating VIAP SLs are modified using age-dependent adjustment factors for those carcinogenic chemicals identified as mutagenic.
- DWC drinking water criterion
- GSI groundwater surface water interface
- ID Insufficient data to develop criterion.
- NA not available
- NLV Not likely to volatilize under most conditions.
- SL screening level
- TX The Remediation and Redevelopment Division Toxicology Unit has not identified an inhalation toxicity value for the hazardous substance at the date of publication of these values.
- VIAIC volatilization to indoor air inhalation criteria
- VIAP volatilization to indoor air pathway

Table 1 - Soil Data Summary

Leestma Management, LLC, 1148 & 1204 West Western Ave., Muskegon, Muskegon County, Michigan
October 2022

Sample Location: Depth Interval (ft): Investigative/Field Duplicate/QC: Laboratory ID: Collection Date:	APNSB-01 (2-4) Investigative 22102086-07 10/21/22	APNSB-02 (6-8) Investigative 22102086-08 10/21/22	APNSB-03 (1-3) Investigative 22102086-09 10/21/22	APNSB-04 (4.5-6.5) Investigative 22102086-10 10/21/22	APNSB-05 (4-6) Investigative 22102086-11 10/21/22	Field Blank QC 22102086-12 10/21/22	Statewide Default Background Levels ⁽¹⁾	Drinking Water Protection Criteria ⁽¹⁾	GSIP Criteria ⁽¹⁾	Soil Volatilization to Indoor Air Inhalation Criteria ⁽¹⁾	Infinite Source VSIC ⁽¹⁾	Finite VSIC for 5 Meter Source Thickness ⁽¹⁾	Finite VSIC for 2 Meter Source Thickness ⁽¹⁾	Particulate Soil Inhalation Criteria ⁽¹⁾	Direct Contact Criteria ⁽¹⁾	Soil Saturation Concentration SL ⁽¹⁾	Soil VIAP SL ⁽²⁾	
Volatile Organic Compounds	CAS Number																	
1,1,1,2-Tetrachloroethane	630-20-6	20 U	21 U	23 U	22 U	20 U	30 U	NA	1,500	ID	6,200	36,000	54,000	1.00E+05	4.20E+08	4.80E+05 (C)	4.40E+05	3.2 (M*)
1,1,1-Trichloroethane	71-55-6	20 U	21 U	23 U	22 U	20 U	30 U	NA	4,000	1,800	2.50E+05	3.80E+06	1.20E+07	2.80E+07	6.70E+10	5.00E+08 (C)	4.60E+05	450 (EE)
1,1,2,2-Tetrachloroethane	79-34-5	20 U	21 U	23 U	22 U	20 U	30 U	NA	170	1,600 (X)	4,300	10,000	10,000	14,000	5.40E+07	53,000	8.70E+05	2.7 (M*)
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	20 U	21 U	23 U	22 U	20 U	30 U	NA	9.00E+06 (C)	1,700	5.10E+06 (C)	1.80E+08	8.80E+08	2.10E+09	5.10E+12	1.00E+09 (C,D)	5.50E+05	860
1,1,2-Trichloroethane	79-00-5	20 U	21 U	23 U	22 U	20 U	30 U	NA	100	6,600 (X)	4,600	17,000	21,000	44,000	1.90E+08	1.80E+05	9.20E+05	0.37 (M*)
1,1-Dichloroethane	75-34-3	20 U	21 U	23 U	22 U	20 U	30 U	NA	18,000	15,000	2.30E+05	2.10E+06	5.90E+06	1.40E+07	3.30E+10	2.70E+07 (C)	8.90E+05	2.6 (M*)
1,1-Dichloroethene	75-35-4	20 U	21 U	23 U	22 U	20 U	30 U	NA	140	2,600	62	1,100	5,300	13,000	6.20E+07	2.00E+05	5.70E+05	12 (M*)
1,2,3-Trichloropropane	96-18-4	20 U	21 U	23 U	22 U	20 U	30 U	NA	840	NA	4,000	9,200	9,200	11,000	2.00E+07	1.30E+06 (C)	8.30E+05	2.6 (M*)
1,2,4-Trichlorobenzene	120-82-1	68 U	70 U	76 U	72 U	68 U	100 U	NA	4,200	5,900 (X)	9.60E+06 (C)	2.80E+07	2.80E+07	2.80E+07	2.50E+10	9.90E+05 (DD)	1.10E+06	53 (M*)
1,2,4-Trimethylbenzene	95-63-6	20 U	21 U	23 U	22 U	20 U	30 U	NA	2,100	570	4.30E+06 (C)	2.10E+07	5.00E+08	5.00E+08	8.20E+10	3.20E+07 (C)	1.10E+05	150 (JT)
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	68 U	70 U	76 U	72 U	68 U	100 U	NA	10 (M); 4.0	ID	220	260	260	5.60E+05	4,400 (C)	1,200	DATA	
1,2-Dibromoethane (EDB)	106-93-4	20 U	21 U	23 U	22 U	20 U	30 U	NA	20 (M); 1.0	110 (X)	670	1,700	1,700	3,300	1.40E+07	92	8.90E+05	0.074 (M*)
1,2-Dichlorobenzene	95-50-1	20 U	21 U	23 U	22 U	20 U	30 U	NA	14,000	280	1.10E+07 (C)	3.90E+07	3.90E+07	5.20E+07	1.00E+11	1.90E+07 (C)	2.10E+05	1,500
1,2-Dichloroethane	107-06-2	68 U	70 U	76 U	72 U	68 U	100 U	NA	100	7,200 (X)	2,100	6,200	11,000	26,000	1.20E+08	91,000	1.20E+06	0.82 (M*)
1,2-Dichloropropane	78-87-5	20 U	21 U	23 U	22 U	20 U	30 U	NA	100	4,600 (X)	4,000	25,000	50,000	1.10E+05	2.70E+08	1.40E+05	5.50E+05	2.1 (M*)
1,3,5-Trimethylbenzene	108-67-8	68 U	70 U	76 U	72 U	68 U	100 U	NA	1,800	1,100	2.60E+06 (C)	1.60E+07	3.80E+08	3.80E+08	8.20E+10	3.20E+07 (C)	94,000	100 (JT)
1,3-Dichlorobenzene	541-73-1	20 U	21 U	23 U	22 U	20 U	30 U	NA	170	680	26,000	79,000	79,000	1.10E+05	2.00E+08	2.00E+05 (C)	1.70E+05	10 (M*)
1,3-Dichloropropene, cis-	10061-01-5	20 U	21 U	23 U	22 U	20 U	30 U	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene, trans-	10061-02-6	20 U	21 U	23 U	22 U	20 U	30 U	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene (Total)	542-75-6	40 U	42 U	46 U	44 U	40 U	60 U	NA	170	180 (X)	1,000	18,000	68,000	1.60E+05	7.80E+08	10,000	6.20E+05	3.1 (J,M*)
1,4-Dichlorobenzene	106-46-7	20 U	21 U	23 U	22 U	20 U	30 U	NA	1,700	360	19,000	77,000	77,000	1.10E+05	4.50E+08	4.00E+05	NA	23 (M*)
2-Butanone (MEK)	78-93-3	140 U	140 U	150 U	140 U	140 U	200 U	NA	2.60E+05	44,000	5.40E+07 (C)	2.90E+07	2.90E+07	3.50E+07	6.70E+10	1.20E+08 (C,DD)	2.70E+07	31,000 (DD*)
2-Hexanone	591-78-6	20 U	21 U	23 U	22 U	20 U	30 U	NA	20,000	ID	9.90E+05	1.10E+06	1.40E+06	1.40E+06	3.20E+09	3.20E+07 (C)	2.50E+06	210 (M*)
2-Methylnaphthalene	91-57-6	68 U	70 U	36 J	44 J	68 U	100 U	NA	57,000	4,200	2.70E+06	1.50E+06	1.50E+06	1.50E+06	6.70E+08	8.10E+06	NA	1,700
4-Methyl-2-pentanone (MIBK)	108-10-1	20 U	21 U	23 U	22 U	20 U	30 U	NA	36,000	ID	3.70E+07 (C)	4.50E+07	4.50E+07	6.70E+07	1.40E+11	5.60E+07 (C)	2.70E+06	3,300
Acetone	67-64-1	140	170	76 U	170	180	340	NA	15,000	34,000	2.90E+08 (C)	1.30E+08	1.30E+08	1.90E+08	3.90E+11	2.30E+07	1.10E+08	2.60E+05 (EE)
Acrylonitrile	107-13-1	68 U	70 U	76 U	72 U	68 U	100 U	NA	100 (M); 52	100 (M); 40	6,000	5,000	5,100	10,000	4.60E+07	16,000	8.30E+06	1.2 (M*)
Benzene	71-43-2	20 U	21 U	23 U	22 U	20 U	30 U	NA	100	4,000 (X)	1,600	13,000	34,000	79,000	3.80E+08	1.80E+05	4.00E+05	1.7 (M*)
Bromochloromethane	74-97-5	20 U	21 U	23 U	22 U	20 U	30 U	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	20 U	21 U	23 U	22 U	20 U	30 U	NA	1,600 (W)	ID	1,200	9,100	9,700	19,000	8.40E+07	1.10E+05	1.50E+06	0.61 (M*)
Bromoform	75-25-2	20 U	21 U	23 U	22 U	20 U	30 U	NA	1,600 (W)	ID	1.50E+05	9.00E+05	9.00E+05	9.00E+05	8.20E+09	8.20E+05	8.70E+05	45 (M*)
Bromomethane	74-83-9	68 U	70 U	76 U	72 U	68 U	100 U	NA	200	100	860	11,000	57,000	1.40E+05	3.30E+08	3.20E+05	2.20E+06	0.90 (M*)
Carbon disulfide	75-15-0	20 U	21 U	23 U	22 U	20 U	30 U	NA	16,000	ID	76,000	1.30E+06	7.90E+06	1.90E+07	4.70E+10	7.20E+06 (C,DD)	2.80E+05	52 (M*)
Carbon tetrachloride	56-23-5	20 U	21 U	23 U	22 U	20 U	30 U	NA	100	760 (X)	190	3,500	12,000	28,000	1.30E+08	96,000	3.90E+05	0.31 (M*)
Chlorobenzene	108-90-7	20 U	21 U	23 U	22 U	20 U	30 U	NA	2,000	500	1.20E+05	7.70E+05	9.90E+05	2.10E+06	4.70E+09	4.30E+06 (C)	2.60E+05	82
Chloroethane	75-00-3	68 U	70 U	76 U	72 U	68 U	100 U	NA	8,600	22,000 (X)	2.90E+06 (C)	3.00E+07	1.20E+08	2.80E+08	6.70E+11	2.60E+06 (C)	9.50E+05	330
Chloroform	67-66-3	20 U	21 U	23 U	22 U	20 U	30 U	NA	1,600 (W)	7,000	7,200	45,000	1.20E+05	2.70E+05	1.30E+09	1.20E+06	1.50E+06	0.26 (M*)
Chloromethane	74-87-3	68 U	70 U	76 U	72 U	68 U	100 U	NA	5,200	ID	2,300	40,000	4.10E+05	1.00E+06	4.90E+09	1.60E+06 (C)	1.10E+06	6.9 (M*)
cis-1,2-Dichloroethene	156-59-2	20 U	21 U	23 U	22 U	20 U	30 U	NA	1,400	12,000	22,000	1.80E+05	4.20E+05	9.90E+05	2.30E+09	2.50E+06 (C)	6.40E+05	2.1 (M*)
Dibromochloromethane	124-48-1	20 U	21 U	23 U	22 U	20 U	30 U	NA	1,600 (W)	ID	3,900	24,000	24,000	33,000	1.30E+08	1.10E+05	6.10E+05	0.40 (M*,MM)
Dibromomethane	74-95-3	20 U	21 U	23 U	22 U	20 U	30 U	NA	1,600	NA	ID	ID	ID	ID	2.50E+06 (C)	2.00E+06	3.5 (M*)	
Dichlorodifluoromethane	75-71-8	68 U	70 U	76 U	72 U	68 U	100 U	NA	95,000	ID	9.00E+05	5.30E+07	5.50E+08	1.40E+09	3.30E+12	5.20E+07 (C)	1.00E+06	12 (M*)
Diethyl ether	60-29-7	20 U	21 U	23 U	22 U	20 U	30 U	NA	200	ID	2.80E+07 (C)	8.50E+07	1.50E+08	3.40E+08	8.00E+11	1.10E+08 (C)	7.40E+06	350
Ethylbenzene	100-41-4	20 U	21 U	23 U	22 U	20 U	30 U	NA	1,500	360	87,000	7.20E+05	1.00E+06	2.20E+06	1.00E+10	2.20E+07 (C)	1.40E+05	12 (M*)
Hexachloroethane	67-72-1	68 U	70 U	76 U	72 U	68 U	100 U	NA	430	1,800 (X)	40,000	5.50E+05	9.30E+05	9.30E+05	2.30E+05	NA	NA	3.2 (M*)
Iodomethane	74-88-4	340 U	350 U	380 U	360 U	340 U	500 U	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene (Cumene)	98-82-8	20 U	21 U	23 U	22 U	20 U	30 U	NA	91,000	3,200	4.00E+05 (C)	1.70E+06	1.70E+06	2.80E+06	5.80E+09	2.50E+07 (C)	3.90E+05	3.8 (M*)
Methyl-tert-butyl ether (MTBE)	1634-04-4	20 U	21 U	23 U	22 U	20 U	30 U	NA	800	1.40E+05 (X)	9.90E+06 (C)	2.50E+07	3.90E+07	8.70E+07	2.00E+11	1.50E+06	5.90E+06	74 (M*)
Methylene chloride	75-09-2	170 U	170 U	190 U	180 U	170 U	250 U	NA	100	30,000 (X)	45,000	2.10E+05	5.90E+05	1.40E+06	6.60E+09	1.30E+06	2.30E+06	130
n-Propylbenzene	103-65-1	20 U	21 U	23 U	22 U	20 U	30 U	NA	1,600	ID	ID	ID	ID	ID	1.30E+09	2.50E+06	1.00E+07	1,800 (DD*)
Naphthalene	91-20-3	68 U	70 U	76 U	89	68 U	100 U	NA	35,000	730	2.50E+05	3.00E+05	3.00E+05	3.00E+05	2.00E+08	1.60E+07	NA	67 (M*)
Styrene	100-42-5	20 U	21 U	23 U	22 U	20 U	30 U	NA	2,700	2,100 (X)	2.50E+05	9.70E+05	9.70E+05	1.40E+06	5.50E+09	4.00E+05	5.20E+05	150
Tetrachloroethene (PCE)	127-18-4	20 U	21 U	23 U	22 U	20 U	30 U	NA	100	1,200 (X)	11,000	1.70E+05	4.80E+05	1.70E+06	2.70E+09	2.00E+05 (C)	88,000	6.2 (M*,EE)
Toluene	108-88-3	20 U	21 U	23 U														

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Leestma Management, LLC, 1148 & 1204 West Western Ave., Muskegon, Muskegon County, Michigan
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Polynuclear Aromatic Compounds	CAS Number																	
2-Methylnaphthalene	91-57-6	4.4 U	47 U	4.6 U	4.5 U	62 U	--	NA	57,000	4,200	2.70E+06	1.50E+06	1.50E+06	1.50E+06	6.70E+08	8.10E+06	NA	1,700
Acenaphthene	83-32-9	4.4 U	47 U	4.6 U	30	62 U	--	NA	3.00E+05	8,700	1.90E+08	8.10E+07	8.10E+07	8.10E+07	1.40E+10	4.10E+07	NA	2.00E+05
Acenaphthylene	208-96-8	4.4 U	47 U	4.6 U	4.5 U	62 U	--	NA	5,900	ID	1.60E+06	2.20E+06	2.20E+06	2.20E+06	2.30E+09	1.60E+06	NA	DATA
Anthracene	120-12-7	4.4 U	47 U	4.6 U	210	62 U	--	NA	41,000	ID	1.00E+09	1.40E+09	1.40E+09	1.40E+09	6.70E+10	2.30E+08	NA	1.30E+07
Benzo(a)anthracene	56-55-3	8.3	47 U	4.6 U	230	65	--	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA	1.60E+05 (MM)
Benzo(a)pyrene	50-32-8	7.2	47 U	4.6 U	180	70	--	NA	NLL	NLL	NLV	NLV	NLV	NLV	1.50E+06	2,000	NA	NA
Benzo(b)fluoranthene	205-99-2	8.8	47 U	4.6 U	210	130	--	NA	NLL	NLL	ID	ID	ID	ID	ID	20,000	NA	NA
Benzo(g,h,i)perylene	191-24-2	4.9	47 U	4.6 U	120	89	--	NA	NLL	NLL	NLV	NLV	NLV	NLV	8.00E+08	2.50E+06	NA	NA
Benzo(k)fluoranthene	207-08-9	5.7	47 U	4.6 U	110	61 J	--	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	2.00E+05	NA	NA
Chrysene	218-01-9	13	63	5.0	260	130	--	NA	NLL	NLL	ID	ID	ID	ID	ID	2.00E+06	NA	NA
Dibenzo(a,h)anthracene	53-70-3	4.4 U	47 U	4.6 U	19	62 U	--	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	2,000	NA	NA
Fluoranthene	206-44-0	18	60	6.6	700	98	--	NA	7.30E+05	5,500	1.00E+09	7.40E+08	7.40E+08	7.40E+08	9.30E+09	4.60E+07	NA	NA
Fluorene	86-73-7	4.4 U	47 U	4.6 U	49	62 U	--	NA	3.90E+05	5,300	5.80E+08	1.30E+08	1.30E+08	1.30E+08	9.30E+09	2.70E+07	NA	4.70E+05
Indeno(1,2,3-cd)pyrene	193-39-5	4.4	47 U	4.6 U	150	71	--	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA	NA
Naphthalene	91-20-3	4.4 U	47 U	4.6 U	4.5 U	62 U	--	NA	35,000	730	2.50E+05	3.00E+05	3.00E+05	3.00E+05	2.00E+08	1.60E+07	NA	67 (M*)
Phenanthrene	85-01-8	4.4 U	47 U	4.6 U	620	62 U	--	NA	56,000	2,100	2.80E+06	1.60E+05	1.60E+05	1.60E+05	6.70E+06	1.60E+06	NA	1,700
Pyrene	129-00-0	18	77	8.7	580	120	--	NA	4.80E+05	ID	1.00E+09 (D)	6.50E+08	6.50E+08	6.50E+08	6.70E+09	2.90E+07	NA	2.50E+07
Metals, Total	CAS Number																	
Arsenic (B)	7440-38-2	3,900	3,700	9,100	4,400	9,100	--	5,800	4,600	4,600	NLV	NLV	NLV	NLV	7.20E+05	7,600	NA	NA
Barium (B)	7440-39-3	9,500	18,000 J	9,200	7,000	14,000	--	75,000	1.30E+06	4.40E+05 (G)	NLV	NLV	NLV	NLV	3.30E+08	3.70E+07	NA	NA
Cadmium (B)	7440-43-9	76 J	790	1,000	120 J	150 U	--	1,200	6,000	3,600 (G,X)	NLV	NLV	NLV	NLV	1.70E+06	5.50E+05	NA	NA
Chromium, Total (B, H)	7440-47-3	20,000	50,000	140,000	22,000	38,000	--	18,000 (total)	30,000	3,300	NLV	NLV	NLV	NLV	2.60E+05	2.50E+06	NA	NA
Copper (B)	7440-50-8	19,000	32,000	77,000	48,000	89,000	--	32,000	5.80E+06	75,000 (G)	NLV	NLV	NLV	NLV	1.30E+08	2.00E+07	NA	NA
Lead (B)	7439-92-1	16,000	38,000	65,000	6,900	4,600	--	21,000	7.00E+05	5.10E+06 (G,X)	NLV	NLV	NLV	NLV	1.00E+08	4.00E+05	NA	NA
Mercury (Total) (B)	7439-97-6	19 U	24	280	940	19 U	--	130	1,700	50 (M); 1.2	48,000	52,000	52,000	52,000	2.00E+07	1.60E+05	NA	22 (M*)
Selenium (B)	7782-49-2	350 U	390 U	36,000	390 U	380 U	--	410	4,000	400	NLV	NLV	NLV	NLV	1.30E+08	2.60E+06	NA	NA
Silver (B)	7440-22-4	350 U	62 J	410	69 J	380 U	--	1,000	4,500	100 (M); 27	NLV	NLV	NLV	NLV	6.70E+06	2.50E+06	NA	NA
Zinc (B)	7440-66-6	19,000	30,000	290,000	15,000	7,000	--	47,000	2.40E+06	1.70E+05 (G)	NLV	NLV	NLV	NLV	ID	1.70E+08	NA	NA
Solids, Total (%)	--	93.4	91.1	89.0	90.3	92.8	--	--	--	--	--	--	--	--	--	--	--	--

Results expressed in µg/kg dry weight.

Bolded values exceed Statewide Default Background Level and an applicable criterion or screening level.

Italicized values are below Statewide Default Background Level but exceed an applicable criterion or screening level.

Underlined parameters are classified as Polynuclear Aromatic Compounds.

Data Qualifiers:

- J Estimated value
- U Not detected

Footnotes/Abbreviations:

⁽¹⁾ Part 201 Residential Soil Generic Cleanup Criteria and Screening Levels/Part 213 Risk-based Screening Levels, December 30, 2013 (GSI Criteria Updated June 25, 2018).

⁽²⁾ EGLE Volatilization to Indoor Air Pathway Screening Levels, September 4, 2020.

(B) Background, as defined in R 299.5701(b), may be substituted if higher than the calculated criterion.

(C) Value is screening level based on the chemical-specific generic soil saturation concentration (C_{sat}).

(D) Calculated criterion exceeds 100 percent; hence it is reduced to 100 percent or 1.00E+09 parts per billion (ppb).

(G) Criterion dependent on receiving surface water (SW) hardness; calculated criteria based on water hardness of 150 mg/L.

(H) Data provided for total chromium only; evaluated against hexavalent chromium criteria.

(J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations must be added together for comparison to criteria.

(JT) Hazardous substance may be present in several isomer forms. The VIAP SL may be used for the individual isomer provided that it is the sole isomer detected; however, when multiple isomers are detected in a medium, the isomer-specific concentrations must be added together and compared to the most restrictive VIAP SL of the detected isomers.

(M) Calculated criterion is below the target detection limit (TDL); first number is the criterion (TDL), the second is the risk-based value.

(M*) The VIAP SL may be below TDL. In accordance with Sec. 20120a(10) when the TDL for a hazardous substance is greater than the developed VIAP SL, the TDL is used to evaluate the risk posed from the pathway.

(W) Concentrations of trihalomethanes must be added together to determine compliance with criterion.

(X) Criterion is not protective for SW used as a drinking water (DW) source.

(DD) Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure.

(DD*) Hazardous substance causes developmental effects. Residential VIAP SLs are protective of both prenatal exposure using a pregnant female receptor and postnatal exposure using a child receptor. Prenatal developmental effects may occur after an acute (i.e. short-term) or full-term exposure.

(EE) The acceptable air concentration (AAC) for the volatile hazardous substances is not derived using standard equations. The hazardous substance may cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The AAC for these hazardous substances is the acute or intermediate minimum risk level (MRL) developed by the Agency for Toxic Substances and Disease Registry (ATSDR), a USEPA Integrated Risk Information System (IRIS) acute reference concentration, or an acute initial threshold screening level (ITSL) by the EGLE's Air Quality Division.

(MM) Hazardous substance is a carcinogen with a mutagenic mode of action. The cancer potency values used in calculating VIAP SLs are modified using age-dependent adjustment factors for those carcinogenic chemicals identified as mutagenic.

DATA Insufficient physical chemical parameters to calculate a VIAP SL for specified media. If detections are present in specified media, health-based soil vapor value should be used to evaluate risk.

GSIP groundwater surface water interface protection

ID Insufficient data to develop criterion.

NA not available

NLL Not likely to leach under most soil conditions.

NLV Not likely to volatilize under most conditions.

SL screening level

VIAP volatilization to indoor air pathway

VSIC volatile soil inhalation criteria

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Leestma Management, LLC, 1148 & 1204 West Western Ave., Muskegon, Muskegon County, Michigan

October 2022

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Volatile Organic Compounds	CAS Number													
1,1,1,2-Tetrachloroethane	630-20-6	1 U	1 U	1 U	1 U	1 U	1 U	77	ID	15,000	1.10E+06	ID	3.1	89
1,1,1-Trichloroethane	71-55-6	1 U	1 U	1 U	1 U	1 U	1 U	200 (A)	89	6.60E+05	1.33E+06	ID	180 (FF*)	17,000 (EE*)
1,1,2,2-Tetrachloroethane	79-34-5	1 U	1 U	1 U	1 U	1 U	1 U	8.5	78 (X)	12,000	2.97E+06	ID	2.4	71
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1 U	1 U	1 U	1 U	1 U	1 U	1.70E+05 (S)	32	1.70E+05 (S)	1.70E+05	ID	840	2,700
1,1,2-Trichloroethane	79-00-5	1 U	1 U	1 U	1 U	1 U	1 U	5.0 (A)	330 (X)	17,000	4.42E+06	NA	0.47 (M*)	14
1,1-Dichloroethane	75-34-3	1 U	1 U	1 U	1 U	1 U	1 U	880	740	1.00E+06	5.06E+06	3.80E+05	4.7	130
1,1-Dichloroethene	75-35-4	1 U	1 U	1 U	1 U	1 U	1 U	7.0 (A)	130	200	2.25E+06	97,000	18	330
1,2,3-Trichloropropane	96-18-4	1 U	1 U	1 U	1 U	1 U	1 U	42	NA	8,300	1.90E+06	NA	1.9	57
1,2,4-Trichlorobenzene	120-82-1	1 U	1 U	1 U	1 U	1 U	1 U	70 (A)	99 (X)	3.00E+05 (S)	3.00E+05	NA	3.8 (M*)	110
1,2,4-Trimethylbenzene	95-63-6	1 U	1 U	3.8	1 U	1 U	1 U	63/1,000 (E)	17	56,000 (S)	55,890	56,000 (S)	25 (JT)	670 (JT)
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	1 U	1 U	1 U	1 U	1 U	1 U	0.20 (A)	ID	220	1,230	NA	0.00045 (M*,MM)	0.00045 (CC*,M*,MM)
1,2-Dibromoethane (EDB)	106-93-4	1 U	1 U	1 U	1 U	1 U	1 U	0.050 (A)	5.7 (X)	2,400	4.20E+06	ID	0.13	3.8
1,2-Dichlorobenzene	95-50-1	1 U	1 U	1 U	1 U	1 U	1 U	600 (A)	13	1.60E+05 (S)	1.56E+05	NA	370	11,000
1,2-Dichloroethane	107-06-2	1 U	1 U	1 U	1 U	1 U	1 U	5.0 (A)	360 (X)	9,600	8.52E+06	2.50E+06	1.4	41
1,2-Dichloropropane	78-87-5	1 U	1 U	1 U	1 U	1 U	1 U	5.0 (A)	230 (X)	16,000	2.80E+06	5.50E+05	2.6	74
1,3,5-Trimethylbenzene	108-67-8	1 U	1 U	1.4	1 U	1 U	1 U	72/1,000 (E)	45	61,000 (S)	61,150	ID	18 (JT)	470 (JT)
1,3-Dichlorobenzene	541-73-1	1 U	1 U	1 U	1 U	1 U	1 U	6.6	28	18,000	1.11E+05	ID	2.6	75
1,3-Dichloropropene, cis-	10061-01-5	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--
1,3-Dichloropropene, trans-	10061-02-6	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--
1,3-Dichloropropene (Total) (Calc.)	542-75-6	2 U	2 U	2 U	2 U	2 U	2 U	8.5	9.0 (X)	3,900	2.80E+06	1.30E+05	3.3 (J)	95 (J)
1,4-Dichlorobenzene	106-46-7	1 U	1 U	1 U	1 U	1 U	1 U	75 (A)	17	16,000	73,800	NA	5.9	170
2-Butanone (MEK)	78-93-3	2.2 J	5 U	5 U	5 U	5 U	2.0 J	13,000	2,200	2.40E+08 (S)	2.40E+08	ID	2,600 (DD)	4.30E+06 (DD)
2-Hexanone	591-78-6	5 U	5 U	5 U	5 U	5 U	5 U	1,000	ID	4.20E+06	1.60E+07	NA	660	20,000
2-Methylnaphthalene	91-57-6	25 U	77	43	28	5 U	1.5 J	260	19	25,000 (S)	24,600	ID	66	2,000
4-Methyl-2-pentanone (MIBK)	108-10-1	1 U	1 U	1 U	1 U	1 U	1 U	1,800	ID	2.00E+07 (S)	2.00E+07	ID	660	20,000
Acetone	67-64-1	10 U	10 U	10 U	10 U	10 U	10 U	730	1,700	1.00E+09 (D,S)	1.00E+09	1.50E+07	50,000 (FF*)	50,000
Acrylonitrile	107-13-1	1 U	1 U	1 U	1 U	1 U	1 U	2.6	2.0 (M); 1.2	34,000	7.50E+07	6.40E+06	4.6	140
Benzene	71-43-2	1 U	1 U	3.7	1 U	1 U	1 U	5.0 (A)	200 (X)	5,600	1.75E+06	68,000	1.0	28
Bromochloromethane	74-97-5	1 U	1 U	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--
Bromodichloromethane	75-27-4	1 U	1 U	1 U	1 U	1 U	1 U	80 (A,W)	ID	4,800	6.74E+06	ID	1.2	34
Bromoform	75-25-2	1 U	1 U	1 U	1 U	1 U	1 U	80 (A,W)	ID	4.70E+05	3.10E+06	ID	89	2,700
Bromomethane	74-83-9	1 U	1 U	1 U	1 U	1 U	1 U	10	5.0 (M); 4.2	4,000	1.45E+07	ID	2.1 (M*)	55
Carbon Disulfide	75-15-0	1 U	1 U	1.1	1 U	1 U	1 U	800	ID	2.50E+05	1.19E+06	13,000	92	2,100
Carbon Tetrachloride	56-23-5	1 U	1 U	1 U	1 U	1 U	1 U	5.0 (A)	38 (X)	370	7.93E+05	ID	0.41 (M*)	7.7
Chlorobenzene	108-90-7	1 U	1 U	1 U	1 U	1 U	1 U	100 (A)	25	2.10E+05	4.72E+05	1.60E+05	33	940
Chloroethane	75-00-3	1 U	1 U	1 U	1 U	1 U	4.6	430	1,100 (X)	5.70E+06 (S)	5.74E+06	1.10E+05	620	15,000
Chloroform	67-66-3	1 U	1 U	1 U	1 U	1 U	1 U	80 (A,W)	350	28,000	7.92E+06	ID	0.49 (M*)	14
Chloromethane	74-87-3	1 U	1 U	1 U	1 U	1 U	1 U	260	ID	8,600	6.34E+06	36,000	15	380
cis-1,2-Dichloroethene	156-59-2	1 U	1 U	1 U	1 U	1 U	1 U	70 (A)	620	93,000	3.50E+06	5.30E+05	3.4	95
Dibromochloromethane	124-48-1	1 U	1 U	1 U	1 U	1 U	1 U	80 (A,W)	ID	14,000	2.60E+06	ID	0.78 (M*,MM)	23 (MM)
Dibromomethane	74-95-3	1 U	1 U	1 U	1 U	1 U	1 U	80	NA	ID	1.10E+07	ID	8.8	260
Dichlorodifluoromethane	75-71-8	1 U	1 U	1 U	1 U	1 U	1 U	1,700	ID	2.20E+05	3.00E+05	ID	13	49
Diethyl Ether	60-29-7	1 U	1 U	1 U	1 U	1 U	1 U	10/3,700 (E)	ID	6.10E+07 (S)	6.10E+07	6.50E+05	1,200	36,000
Ethylbenzene	100-41-4	1 U	1 U	1 U	1 U	1 U	1 U	74/700 (E)	18	1.10E+05	1.69E+05	43,000	2.8	74
Hexachloroethane	67-72-1	1 U	1 U	1 U	1 U	1 U	1 U	7.3	6.7 (X)	27,000	50,000	ID	1.5 (M*)	43

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Iodomethane	74-88-4	5 U	5 U	5 U	5 U	5 U	5 U	--	--	--	--	--	--	
Isopropylbenzene (Cumene)	98-82-8	1 U	1 U	1 U	1 U	1 U	1 U	800	28	56,000 (S)	56,000	29,000	0.60 (M*)	15
Methyl tert-Butyl Ether (MTBE)	1634-04-4	1 U	1 U	1 U	1 U	1 U	1 U	40/240 (E)	7,100 (X)	4.70E+07 (S)	4.68E+07	ID	250	7,400
Methylene Chloride	75-09-2	5 U	5 U	5 U	5 U	5 U	5 U	5.0 (A)	1,500 (X)	2.20E+05	1.70E+07	ID	79 (FF*)	8,400
n-Propylbenzene	103-65-1	1 U	1 U	1 U	1 U	1 U	1 U	80	ID	ID	NA	ID	43 (DD)	6,100 (DD)
Naphthalene	91-20-3	25 U	57	22	12	5 U	5 U	520	11	31,000 (S)	31,000	NA	4.2 (M*)	130
Styrene	100-42-5	1 U	1 U	1 U	1 U	1 U	1 U	100 (A)	80 (X)	1.70E+05	3.10E+05	1.40E+05	33	960
Tetrachloroethene (PCE)	127-18-4	1 U	1 U	1 U	1 U	1 U	1 U	5.0 (A)	60 (X)	25,000	2.00E+05	ID	1.5 (FF*)	130 (EE*)
Toluene	108-88-3	1 U	1 U	2.0	1 U	1 U	1 U	790/1,000 (E)	270	5.30E+05 (S)	5.26E+05	61,000	300 (FF*)	41,000
trans-1,2-Dichloroethene	156-60-5	1 U	1 U	1 U	1 U	1 U	1 U	100 (A)	1,500 (X)	85,000	6.30E+06	2.30E+05	16	390
trans-1,4-Dichloro-2-butene	110-57-6	2 U	2 U	2 U	2 U	2 U	2 U	--	--	--	--	--	--	--
Trichloroethene (TCE)	79-01-6	1 U	1 U	1 U	1 U	1 U	1 U	5.0 (A)	200 (X)	2,200	1.10E+06	ID	0.073 (M*,DD)	10 (DD)
Trichlorofluoromethane	75-69-4	1 U	1 U	1 U	1 U	1 U	1 U	2,600	NA	1.10E+06 (S)	1.10E+06	ID	22	190
Vinyl Acetate	108-05-4	5 U	5 U	5 U	5 U	5 U	5 U	640	NA	4.10E+06	2.00E+07	1.80E+06	690	21,000
Vinyl Chloride	75-01-4	1 U	1 U	1 U	1 U	1 U	1 U	2.0 (A)	13 (X)	1,100	2.76E+06	33,000	0.12 (M*,MM)	2.1 (MM)
Xylenes, meta- & para-	179601-23-1	2.4	2 U	2 U	2 U	2 U	2 U	--	--	--	--	--	--	--
Xylene, ortho-	95-47-6	1 U	1 U	1.0	1 U	1 U	1 U	--	--	--	--	--	--	--
Xylenes, Total	1330-20-7	2.4 J	3 U	1.0 J	3 U	3 U	3 U	280/10,000 (E)	49	1.90E+05 (S)	1.86E+05	70,000	75 (J)	2,000 (J)
Polynuclear Aromatic Compounds	CAS Number													
2-Methylnaphthalene	91-57-6	5 U	5 U	120 U	3.9 J	5 U	--	260	19	25,000 (S)	24,600	ID	66	2,000
Acenaphthene	83-32-9	1 U	0.074 J	24 U	0.37 J	1 U	--	1,300	38	4,200 (S)	4,240	ID	3,900 (S)	3,900 (S)
Acenaphthylene	208-96-8	1 U	1 U	24 U	0.10 J	1 U	--	52	ID	3,900 (S)	3,930	ID	65	65 (CC*)
Anthracene	120-12-7	1 U	0.087 J	24 U	0.045 J	1 U	--	43 (S)	ID	43 (S)	43.4	ID	43 (S)	43 (S)
Benzo(a)anthracene	56-55-3	1 U	0.36 J	24 U	0.14 J	1 U	--	2.1	ID	NLV	9.4	ID	9.4 (S,MM)	9.4 (S,MM)
Benzo(a)pyrene	50-32-8	1 U	0.43 J	24 U	0.18 J	1 U	--	5.0 (A)	ID	NLV	1.62	ID	NA	NA
Benzo(b)fluoranthene	205-99-2	1 U	0.65 J	24 U	0.31 J	1 U	--	1.5 (S,AA)	ID	ID	1.5	ID	NA	NA
Benzo(g,h,i)perylene	191-24-2	1 U	0.31 J	24 U	0.13 J	1 U	--	1.0 (M); 0.26 (S)	ID	NLV	0.26	ID	NA	NA
Benzo(k)fluoranthene	207-08-9	1 U	0.28 J	24 U	1 U	1 U	--	1.0 (M); 0.80 (S)	NA	NLV	0.80	ID	NA	NA
Chrysene	218-01-9	1 U	0.54 J	24 U	0.27 J	1 U	--	1.6 (S)	ID	ID	1.6	ID	NA	NA
Dibenzo(a,h)anthracene	53-70-3	2 U	2 U	48 U	2 U	2 U	--	2.0 (M); 0.21	ID	NLV	2.49	ID	NA	NA
Fluoranthene	206-44-0	1 U	0.79 J	24 U	0.26 J	1 U	--	210 (S)	1.6	210 (S)	206	ID	NA	NA
Fluorene	86-73-7	1 U	1 U	24 U	0.65 J	1 U	--	880	12	2,000 (S)	1,980	ID	1,700 (S)	1,700 (S)
Indeno(1,2,3-cd)pyrene	193-39-5	2 U	0.32 J	48 U	2 U	2 U	--	2.0 (M); 0.022 (S)	ID	NLV	0.022	ID	NA	NA
Naphthalene	91-20-3	1 U	1 U	24 U	2.5	1 U	--	520	11	31,000 (S)	31,000	NA	4.2 (M*)	130
Phenanthrene	85-01-8	1 U	0.21 J	24 U	0.76 J	1 U	--	52	2.0 (M); 1.7	1,000 (S)	1,000	ID	9.5	290
Pyrene	129-00-0	1 U	0.89 J	24 U	0.39 J	1 U	--	140 (S)	ID	140 (S)	135	ID	140 (S)	140 (S)
Metals, Total	CAS Number													
Arsenic	7440-38-2	1.0 J	8.2 J	28 J	8.6 J	6.1	--	10 (A)	10	NLV	NA	ID	NA	NA
Barium (B)	7440-39-3	37	210	250	180	70	--	2,000 (A)	674 (G)	NLV	NA	ID	NA	NA
Cadmium (B)	7440-43-9	1 U	2.4 J	10 U	2.5 J	1 U	--	5.0 (A)	3.0 (G,X)	NLV	NA	ID	NA	NA
Chromium, Total (B,H)	7440-47-3	2.7 J	47 J	93	22 J	2.2 J	--	100 (A)	11	NLV	NA	ID	NA	NA
Copper (B)	7440-50-8	1.6 J	71	140	60	1.3 J	--	1,000/1,400 (E)	13 (G)	NLV	NA	ID	NA	NA
Lead (B)	7439-92-1	0.58 J	200	150	88	0.54 J	--	4.0 (L)	34 (G,X)	NLV	NA	ID	NA	NA
Mercury (Total) (B)	7439-97-6	0.2 U	0.2 U	0.2 U	0.31	0.2 U	--	2.0 (A)	0.0013	56 (S)	56	ID	0.088	2.5
Selenium (B)	7782-49-2	5 U	50 U	5.5 J	50 U	0.54 J	--	50 (A)	5.0	NLV	NA	ID	NA	NA
Silver (B)	7440-22-4	0.84 U	8.4 U	6.3 J	8.4 U	0.84 U	--	34	0.20 (M); 0.060	NLV	NA	ID	NA	NA
Zinc (B)	7440-66-6	3.9 J	96 J	280	660	12 J	--	2,400	167 (G)	NLV	NA	ID	NA	NA

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Field Parameters	CAS Number													
Dissolved Oxygen (DO) (mg/L)	--	1.7	0.1	0.1 U	0.1	0.3	--	<i>ID</i>	<i>(EE)</i>	<i>ID</i>	<i>NA</i>	<i>NA</i>	--	--
Eh (mV)	--	260	76	71	120	100	--	--	--	--	--	--	--	--
pH (SU)	--	6.9	7.6	9.6	7.4	6.9	--	<i>6.5 to 8.5 (E)</i>	<i>6.5 to 9.0</i>	<i>ID</i>	<i>NA</i>	<i>NA</i>	--	--
Specific Conductance (µmhos/cm)	--	560	570	510	420	610	--	--	--	--	--	--	--	--
Temperature (°C)	--	18.5	18.7	16.0	15.7	16.1	--	--	--	--	--	--	--	--
Turbidity (NTU)	--	15	86	82	120	6.0	--	--	--	--	--	--	--	--

Results expressed in µg/L.

Bolded values exceed an applicable criterion and/or screening level.

Underlined compounds classified as polynuclear aromatic compounds.

Data Qualifiers:

J Estimated value

U Not detected above the given limit

Footnotes/Abbreviations:

⁽¹⁾ Part 201 Groundwater Generic Cleanup Criteria and Screening Levels, December 21, 2020.

⁽²⁾ EGLE Volatilization to Indoor Air Pathway Screening Levels, September 4, 2020.

(A) Criterion is the state of Michigan drinking water (DW) standard.

(B) Background, as defined in R 299.5701(b), may be substituted if higher than the calculated criterion.

(E) Aesthetic drinking water (DW) value. Notice of aesthetic impact may be employed as an institutional control if concentration exceeds the aesthetic DWC but not the health-based DW value (second value, if provided).

(G) Criterion dependent on receiving surface water (SW) hardness; calculated criteria based on water hardness of 150 mg/L.

(H) Data provided for total Chromium only; compare to hexavalent Chromium criteria. If both trivalent Chromium and hexavalent Chromium are present, the total concentration of both cannot exceed the DW criterion of 100 µg/L.

(J) Substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.

(JT) Substance present in several isomer forms. The VIAP SL may be used for the individual isomer provided that it is sole isomer detected; however, when multiple isomers are detected in a medium, the isomer-specific concentrations must be added together and compared to the most restrictive VIAP SL of the detected isomers.

(L) Concentrations up to the State action level of 15 µg/L may still allow for DW use if soil concentrations are below 400 mg/Kg.

(M) Calculated criterion is below the analytical target detection limit (TDL), therefore, the criterion defaults to the TDL (first value is criterion, second value is the risk based or solubility value).

(M*) The VIAP SL may be below target detection limits (TDL). In accordance with Sec. 20120a(10) when the TDL for a hazardous substance is greater than the developed VIAP SL, the TDL is used to evaluate the risk posed from the pathway.

(S) Criterion defaults to the hazardous substance-specific water solubility limit.

(W) Concentrations of trihalomethanes shall be added together to determine compliance with the Michigan DW standard of 80 µg/L.

(X) Criterion is not protective for SW used as a DW source.

(CC*) Insufficient chemical-physical input parameters have been identified to allow the development of a VIAP SL using standard equations. The VIAP SL for GW is developed based solely on the approach that the department uses for shallow GW. If GW detections are present, soil vapor may be the most appropriate media to evaluate risk.

(DD) Hazardous substance causes developmental effects. Residential VIAP SLs are protective of both prenatal exposure using a pregnant female receptor and postnatal exposure using a child receptor. Nonresidential VIAP screening levels are protective of prenatal exposure using a pregnant female receptor. Prenatal developmental effects may occur after an acute (i.e. short-term) or full-term exposure.

(EE) Cold receiving waters ≥7,000 µg/L; Warm receiving waters ≥5,000 µg/L; Since a low level of DO can be harmful to aquatic life, the criterion represents a minimum level that on-site samples must exceed. Criteria are not applicable if GW Carbonaceous Biochemical Oxygen Demand (CBOD) is less than 10,000 µg/L and GW ammonia concentration is less than 2,000 µg/L.

(EE*) The acceptable air concentration (AAC) for the volatile hazardous substance is not derived using standard equations. The hazardous substance may cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The AAC for this hazardous substance is the acute or intermediate minimum risk level (MRL) developed by the Agency for Toxic Substances and Disease Registry (ATSDR), a USEPA Integrated Risk Information System (IRIS) acute reference concentration, or an acute initial threshold screening level (ITSL) by the EGLE's Air Quality Division.

(FF*) The AAC for the volatile hazardous substances are based on toxicity values that have been identified to have the potential to cause adverse human health effects for less than chronic exposures (i.e. short-term or acute). The short-term exposure for shallow groundwater VIAP SLs are based on modification of the standard equations by the department to develop applicable shallow groundwater VIAP SLs.

(MM) Hazardous substance is a carcinogen with a mutagenic mode of action. The cancer potency values used in calculating VIAP SLs are modified using age-dependent adjustment factors for those carcinogenic chemicals identified as mutagenic.

DWC drinking water criterion

GSI groundwater surface water interface

ID Insufficient data to develop criterion.

NA not available

NLV Not likely to volatilize under most conditions.

SL screening level

VIAIC volatilization to indoor air inhalation criteria

VIAP volatilization to indoor air pathway

Attachment D

Reimbursement Agreement