

APPENDIX D-4
Beneficiary Eligible Mitigation Action Certification

BENEFICIARY ELIGIBLE MITIGATION ACTION CERTIFICATION

Beneficiary State of Indiana

Lead Agency Authorized to Act on Behalf of the Beneficiary Indiana Department of Environmental Management
(Any authorized person with delegation of such authority to direct the Trustee delivered to the Trustee pursuant to a Delegation of Authority and Certificate of Incumbency)

Action Title:	R2 - DERA Option Awards
Beneficiary's Project ID:	R2 - US Agg Dump Trucks and Loader Replacements
Funding Request No.	<i>(sequential)</i> 43
Request Type: (select one or more)	<input checked="" type="checkbox"/> Reimbursement <input type="checkbox"/> Advance <input type="checkbox"/> Other (specify): _____
Payment to be made to: (select one or more)	<input type="checkbox"/> Beneficiary <input checked="" type="checkbox"/> Other (specify): <u>Grantee: US Aggregates as detailed in Attachment A</u>
Funding Request & Direction (Attachment A)	<input checked="" type="checkbox"/> Attached to this Certification <input type="checkbox"/> To be Provided Separately

SUMMARY

Eligible Mitigation Action	<input type="checkbox"/> Appendix D-2 item (specify): _____
Action Type	<input checked="" type="checkbox"/> Item 10 - DERA Option (5.2.12) (specify and attach DERA Proposal): _____
Explanation of how funding request fits into Beneficiary's Mitigation Plan (5.2.1): See Appendix D-4 Summary Details attachment.	
Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2): See Appendix D-4 Summary Details attachment.	
Estimate of Anticipated NOx Reductions (5.2.3): See Appendix D-4 Summary Details attachment.	
Identification of Governmental Entity Responsible for Reviewing and Auditing Expenditures of Eligible Mitigation Action Funds to Ensure Compliance with Applicable Law (5.2.7.1): See Appendix D-4 Summary Details attachment.	
Describe how the Beneficiary will make documentation publicly available (5.2.7.2). See Appendix D-4 Summary Details attachment.	
Describe any cost share requirement to be placed on each NOx source proposed to be mitigated (5.2.8). See Appendix D-4 Summary Details attachment.	
Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9). See Appendix D-4 Summary Details attachment.	

If applicable, describe how the mitigation action will mitigate the impacts of NOx emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10).
See Appendix D-4 Summary Details attachment.

ATTACHMENTS
(CHECK BOX IF ATTACHED)

- Attachment A Funding Request and Direction.
- Attachment B Eligible Mitigation Action Management Plan Including Detailed Budget and Implementation and Expenditures Timeline (5.2.4).
- Attachment C Detailed Plan for Reporting on Eligible Mitigation Action Implementation (5.2.11).
- Attachment D Detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (5.2.6). [Attach only if project involves vendor expenditures exceeding \$25,000.]
- Attachment E DERA Option (5.2.12). [Attach only if using DERA option.]
- Attachment F Attachment specifying amount of requested funding to be debited against each beneficiary's allocation (5.2.13). [Attach only if this is a joint application involving multiple beneficiaries.]

CERTIFICATIONS

By submitting this application, the Lead Agency makes the following certifications:

1. This application is submitted on behalf of Beneficiary , State of Indiana , and the person executing this certification has authority to make this certification on behalf of the Lead Agency and Beneficiary, pursuant to the Certification for Beneficiary Status filed with the Court.
2. Beneficiary requests and directs that the Trustee make the payments described in this application and Attachment A to this Form.
3. This application contains all information and certifications required by Paragraph 5.2 of the Trust Agreement, and the Trustee may rely on this application, Attachment A, and related certifications in making disbursements of trust funds for the aforementioned Project ID.
4. Any vendors were or will be selected in accordance with a jurisdiction's public contracting law as applicable. (5.2.5)
5. Beneficiary will maintain and make publicly available all documentation submitted in

support of this funding request and all records supporting all expenditures of eligible mitigation action funds subject to applicable laws governing the publication of confidential business information and personally identifiable information. (5.2.7.2)

DATED: 2/22/22

Brian Lockness, Commissioner
[NAME]
[TITLE]

Indiana Department of Environmental Management

[LEAD AGENCY]

for
State of Indiana

[BENEFICIARY]

Appendix D-4 Summary Details

Eligible Mitigation Action Type:

Category 10: DERA Option

Explanation of how funding request fits into Beneficiary's Mitigation Plan (5.2.1):

Indiana will generally fund all eligible mitigation action (EMA) types included in Appendix D-2 of the national consent decree. The Mission Statement and Overall Goals are described below:

In promoting the reduction of emissions of NO_x, the Indiana Volkswagen Environmental Mitigation Trust Fund Program will prioritize sustainable projects that are transformative, positively impacting the environment, enhancing the health and well-being of residents, and promoting Indiana's growing economy.

The Program will focus on technological change and advancement with resiliency and favoring use of domestic fuel, where possible.

The goals of the Indiana Volkswagen Mitigation Trust Program include:

- Improving air quality across Indiana through cost-effective NO_x emission reduction strategies
- Maximizing diesel emission reductions across Indiana, while considering various categories of sensitive populations as areas of specific focus
- Providing appropriate considerations to projects that have diesel emission reductions that go beyond just NO_x, including PM_{2.5}, hydrocarbons (HC), carbon monoxide (CO), and carbon dioxide (CO₂)
- Encouraging leveraging of project partner funds with VW Trust funds to further the reach of the Indiana program

Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2):

This project is for the purchase, installation, operation, and maintenance of two (2) 2020 model-year, or newer, U.S. EPA emission compliant (Tier 4) diesel-powered nonroad dump trucks and one (1) 2020 model-year, or newer, U.S. EPA emission compliant (Tier 4) diesel-powered front end loader that will REPLACE two (2) of the Grantee's Pre-Tier 4 existing diesel-powered nonroad dump trucks and one (1) of the Grantee's Pre-Tier 4 existing diesel-powered front end loaders that will be used for the same purpose. The replacement vehicle will be located and primarily operated in and around Ridgeville and Columbus, Indiana.

Clean-diesel-powered equipment dramatically improves air quality and the quality-of-life conditions for drivers, technicians, and citizens in the areas of operation due to notably lower tailpipe emissions in addition to less noisy engine operations.

The lifetime estimated emission reductions of pollutants according to U.S. EPA's Diesel Emission Quantifier (DEQ) include 14.086 tons of nitrogen oxides (NO_x) and 1.994 tons of fine particulate matter (PM_{2.5}).

Estimate of Anticipated NOx Reductions (5.2.3):

Over the lifetime of this equipment, U.S. EPA's DEQ model estimates this project will result in a NOx reduction of 14.086 tons.

Identification of Governmental Entity Responsible for Reviewing and Auditing Expenditures of Eligible Mitigation Action Funds to Ensure Compliance with Applicable Law (5.2.7.1):

Indiana Department of Environmental Management

Describe how the Beneficiary will make documentation publicly available (5.2.7.2):

In October of 2017, IDEM published a website with specific information on the national mitigation trust as well as the Indiana program. The website included an opportunity to sign up for automated updates to make sure interested parties were always kept apprised of any changes made to the program website. This web portal will be the location for all information related to the Indiana Volkswagen Mitigation Trust Program.

Describe any cost share requirement to be placed on each NOx source proposed to be mitigated (5.2.8):

Indiana will use Volkswagen Mitigation Trust funds to reimburse non-government owned fleet and equipment owners at the levels specified in Appendix D-2 of the national mitigation trust. IDEM will also use Volkswagen Mitigation Trust funds to reimburse government-owned fleets and equipment at the same level as non-government owned fleet and equipment owners, as opposed to the full cost reimbursement permitted by Appendix D-2.

Specifically, for this project, the Indiana Volkswagen Mitigation Trust Program will cover up to 25% of the total project cost while the Grantee and/or other programs covers the remaining 75%.

Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9):

The Indiana Department of Environmental Management notified representatives as identified in Appendix D-2 of the national consent decree via email in March of 2018.

If applicable, describe how the mitigation action will mitigate the impacts of NOx emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10):

Not applicable to this specific project.

Attachment B Details

Project Schedule and Milestones:

Indiana announces Round 2 – DERA Option funding opportunity via online Request for Proposals (RFP)	October 1, 2020
Deadline for Round 2 – DERA Option program applications	November 25, 2020
Indiana notifies applicants of award decisions	January 13, 2021
Funding Agreement between Indiana and Grantee is fully executed	April 16, 2021
Grantee project implementation	April 16, 2021 to September 30, 2022
Indiana reviews programmatic, financial, and vehicle scrappage materials for compliance with Appendix D-2 of the national consent decree	Ongoing
Indiana submits Appendix D-4 to Trustee to initiate payment to Grantee in accordance with Payee Contact and Wire Information form along with other supporting documentation	February 24, 2022
Indiana coordinates with Trustee on any questions or issues that arise related to the submitted Appendix D-4	February 24, 2022 to D-4 approval
Trustee responds to Indiana Appendix D-4	Within 60 days of submittal
Trustee disburses payment to Grantee	Within 15 days of Appendix D-4 approval

Project Budget:

Project Description	Indiana VW Mitigation Trust Grant Not to Exceed Total	Grantee Cost Share Not Less than Total	Project Total
The purchase, installation, operation and maintenance of two (2) 2020 model-year, or newer, U.S. EPA emission compliant (Tier 4) diesel-powered nonroad dump trucks and one (1) 2020 model-year, or newer, U.S. EPA emission compliant (Tier 4) diesel-powered front end loader that will REPLACE two (2) of the Grantee’s Pre-Tier 4 existing diesel-powered nonroad dump trucks and one (1) of the Grantee’s Pre-Tier 4	\$339,720	\$1,019,160	\$1,358,880

existing diesel-powered front end loaders that will be used for the same purpose. The replacement vehicle will be located and primarily operated in and around Ridgeville and Columbus, Indiana.			
Percentage	25%	75%	100%

State of Indiana Total Trust Allocation:

1) State of Indiana's Total Trust Allocation	\$40,935,880.59
2) Obligated Awards from Previous D-4 Submittals	\$9,297,963.60
3) State of Indiana's Net Remaining Allocation Prior to this D-4 Submittal	\$31,637,916.99
4) Current D-4 Funding Request Total	\$339,720.00
5) State of Indiana's Remaining Allocation After this D-4 Submittal	\$31,298,196.99

Projected Allocation Totals per Project Type:

	Total per Category	Annually Based on Expected Project Reimbursements
Total Trust	\$40,935,880.59	NA
To EV (15%) over 3 years (2021 to 2023)	\$6,140,382.09	\$2,046,794.03
To Admin (3%) over 4 years (2020 to 2023)	\$1,228,076.42	\$307,019.11
To EMAs (82%) over 3 years (2020 to 2022)	\$33,567,422.08	\$11,189,140.69

Projected Trust Allocations:

	2020	2021	2022	2023
1) Anticipated Annual Project Funding Request to be paid through the Trust	\$11,189,140.69	\$13,235,934.72	\$13,235,934.72	\$2,046,794.03
2) Anticipated Annual Cost Share (Administrative Costs)	\$307,019.11	\$307,019.11	\$307,019.11	\$307,019.11
3) Anticipated Total Project Funding by Year (Line 1 + Line 2)	\$11,496,159.8	\$13,542,953.8	\$13,542,953.8	\$2,353,813.14
4) Cumulative Trustee Payments Made to Date Against Cumulative Approved Beneficiary Allocation	\$3,895,454.40	\$4,710,898.20	\$459,707.00	
5) Current Beneficiary Project Funding to be paid through the Trust (Line 1)	\$101,199.00	\$130,705.00	\$339,720.00	
6) Total Funding Allocated to Beneficiary, inclusive of Current Action by Year (Line 4 + Line 5)	\$3,996,653.40	\$4,841,603.20	\$799,427.00	
7) Beneficiary Share of Estimated Funds Remaining in Trust at Beginning of Year	\$40,935,880.59	\$36,939,227.19	\$32,097,623.99	
8) Net Beneficiary Funds Remaining in Trust, net of cumulative Beneficiary Funding Actions (Line 7 – Line 6)	\$36,939,227.19	\$32,097,623.99	\$31,298,196.99	

Attachment C Details

Detailed Plan for Reporting on Eligible Mitigation Action Implementation (5.2.11):

The Indiana Department of Environmental Management (IDEM) is committed to meet the reporting requirements as detailed in Subparagraph 5.3 of the Environmental Mitigation Trust Agreement for State Beneficiaries. Specifically, this subparagraph states:

“For each Eligible Mitigation Action, no later than six months after receiving its first disbursement of Trust Assets, and thereafter no later than January 30 (for the preceding six-month period of July 1 to December 31) and July 30 (for the preceding six-month period of January 1 to June 30) of each year, each Beneficiary shall submit to the Trustee a semiannual report describing the progress implementing each Eligible Mitigation Action during the six-month period leading up to the reporting date (including a summary of all costs expended on the Eligible Mitigation Action through the reporting date). Such reports shall include a complete description of the status (including actual or projected termination date), development, implementation, and any modification of each approved Eligible Mitigation Action. Beneficiaries may group multiple Eligible Mitigation Actions and multiple sub-beneficiaries into a single report. These reports shall be signed by an official with the authority to submit the report for the Beneficiary and must contain an attestation that the information is true and correct and that the submission is made under penalty of perjury. To the extent a Beneficiary avails itself of the DERA Option described in Appendix D-2, that Beneficiary may submit its DERA Quarterly Programmatic Reports in satisfaction of its obligations under this Paragraph as to those Eligible Mitigation Actions funded through the DERA Option. The Trustee shall post each semiannual report on the State Trust’s public-facing website upon receipt.”

IDEM will meet these obligations in coordination with our project partners. Project partners are obligated to provide IDEM the necessary information for reports to the Trustee through the Funding Agreements between IDEM and each project partner. This language states:

“4. Implementation and Reporting Requirements

A. The Grantee shall implement and complete the Project in accordance with **Attachment A** and the plans and specifications contained in its Funding Application. Modification of the Project shall require prior written approval from IDEM. If IDEM determines that the Grantee is not making adequate progress in implementation of the approved Project in accordance with **Attachment A**, IDEM may rescind the award.

B. The Grantee shall submit to IDEM written progress reports until the completion of the Project. These reports shall be submitted in accordance with the reporting schedule contained in **Attachment C** and shall contain such detail of progress or performance on the Project as is

required under the terms of the Volkswagen Diesel Emissions Environmental Mitigation Trust. If additional documentation is required for IDEM to meet reporting obligations under the Volkswagen Diesel Emissions Environmental Mitigation Trust, IDEM may request such documentation as necessary at any time during the term of this Agreement.”

Attachment D Details

Detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (5.2.6):

Detailed in the following pages:



INVOICE

U.S. Aggregates, Inc.

U.S. Aggregates, Inc.
5400 West 86th Street
Indianapolis, IN 46268

Mr. Shawn M. Seals
Senior Environmental Manager
Indiana Department of Environmental Management
Office of Air Quality – Mail Code 61-50
100 North Senate Avenue
Indianapolis, IN 46204-225

Invoice: 112201
Invoice Date: 11/22/2021
Customer P.O. #
Project: 2020 Diesel Wise Reimbursement
Our Contract No:
Payment Terms NET 30
Page 1 of 1

For billing questions, please call: [\(317\) 434-4600](tel:3174344600)

Item	Amount
RE: DOR2-013 Indiana VW Funding – 2 Nonroad Dumps 1 Loader	\$339,720.00

Please Pay From This Invoice
No Statement Issued

Amount Due This Invoice \$339,720.00



REMIT TO: **MacAllister Machinery**
Dept. 78731
P.O. Box 78000
Detroit, MI 48278-0731

MACALLISTER MACHINERY Ph 317-545-2151
 6300 SOUTHEASTERN AVE
 INDIANAPOLIS IN 46203

Account Number: **7046979**
CUSTOMER ORIGINAL INVOICE

SOLD TO
 US AGGREGATES/RIDGEVILLE
 1972 W SR 28
 RIDGEVILLE IN 47380

INVOICE NUMBER	INVOICE DATE	ORDER NUMBER	CUSTOMER PO NUMBER	PAGE
MS4194057	06/23/2021	INDY-SLS-4194054		1/1
QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTENSION

SEGMENT 1

EQUIPMENT

1	CATERPILLAR 770G SN:0KDH00385 ID#:KDH385		290,000.00	290,000.00
1	5083339	770G OHT AM-N DCA5		
1	3000001	770G OFF-HIGHWAY TRUCK		
1	2997274	FILTER, AIR		
1	3416731	LANGUAGE, ADVISOR		
1	3434105	EXHAUST, BODY HEAT		
1	4448412	NORTH AMERICA REGION		
1	4448420	ADVANCED BRAKING PERFORMANCE		
1	4448428	SUSPENSION, EU		
1	4448432	VISIBILITY, STD WITH CAMERA		
1	4448435	GREASE FITTINGS, CLSTRD W/FF		
1	4448437	WEATHER PACKAGE, HEATED		
1	4448451	PRODUCT LINK, SATELLITE PL321		
1	0P9001	LANE 1 ORDER		
1	3251402	TIRES,18.00 R33 BS VMTP E2A		
1	4448460	BODY, FLAT FLOOR, STEEL LINER		
1	0P0269	DOMESTIC TRUCK		
1	3658571	WHEEL CHOCKS (ANSI)		

WARRANTY

ALL USED MACHINES ARE SOLD "AS IS" WITH NO WARRANTIES EXPRESSED OR IMPLIED.

	SEGMENT TOTAL	290,000.00
SUBTOTAL BEFORE TAXES		290,000.00
	NON-TAX INDIANA RESALE	0.00

PAYMENT TERMS

A monthly Finance Charge of 1.00% (12% APR) will be added on all past due amounts. Title to goods remains with the seller until full payment is received.

CREDIT AMOUNT	
DO NOT PAY	
PAY THIS AMOUNT	290,000.00



REMIT TO: **MacAllister Machinery**
Dept. 78731
P.O. Box 78000
Detroit, MI 48278-0731

MACALLISTER MACHINERY Ph 317-545-2151
 6300 SOUTHEASTERN AVE
 INDIANAPOLIS IN 46203

Account Number: 4678000
CUSTOMER ORIGINAL INVOICE

SOLD TO
 HERITAGE AGG/COLUMBUS
 3415 S 650 E
 COLUMBUS IN 47203

INVOICE NUMBER	INVOICE DATE	ORDER NUMBER	CUSTOMER PO NUMBER	PAGE
MS4194045	06/23/2021	USED-SLS-4194041	JWS00313	1/1
QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTENSION

SEGMENT 1

EQUIPMENT

1	CATERPILLAR 773G SN:JWS00313 ID#:JWS00313	550,000.00	550,000.00
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WARRANTY

ALL USED MACHINES ARE SOLD "AS IS" WITH NO WARRANTIES EXPRESSED OR IMPLIED.

SEGMENT TOTAL 550,000.00

SUBTOTAL BEFORE TAXES 550,000.00

NON-TAX INDIANA RESALE 0.00

PAYMENT TERMS

A monthly Finance Charge of 1.00% (12% APR) will be added on all past due amounts. Title to goods remains with the seller until full payment is received.

CREDIT AMOUNT	
DO NOT PAY	
PAY THIS AMOUNT	550,000.00



REMIT TO: **MacAllister Machinery**
Dept. 78731
P.O. Box 78000
Detroit, MI 48278-0731

MACALLISTER MACHINERY Ph 317-545-2151
 6300 SOUTHEASTERN AVE
 INDIANAPOLIS IN 46203

Account Number: **7046979**
CUSTOMER ORIGINAL INVOICE

SOLD TO
 US AGGREGATES/RIDGEVILLE
 1972 W SR 28
 RIDGEVILLE IN 47380

INVOICE NUMBER	INVOICE DATE	ORDER NUMBER	CUSTOMER PO NUMBER	PAGE
MS4194102	06/23/2021	INDY-SLS-4194070		1/1
QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTENSION

SEGMENT 1

EQUIPMENT

1	CATERPILLAR 986K HP SN:0SWH00262 ID#:SWH262		518,880.00	518,880.00
1	4384200	986K WHEEL LOADER		
1	4839840	NO RIDE CONTROL		
1	4345122	LIGHTS, LED		
1	4556820	CAB, BASIC		
1	4887602	CAMERA, REAR VISION		
1	4906103	PRODUCT LINK, CELLULAR PLE641		
1	4890181	FUEL TANK, FAST FILL		
1	4917382	TIRES, 35/65R33 BS VSDL ** L5		
1	4900620	STAIRWAYS W/TOE KICKS, LH & RH		
1	4868073	RADIO, AM/FM/CD/BT/SAT		
1	4902480	CPM PAYLOAD WEIGHING		
1	4902495	OIL CHANGE SYSTEM, HIGH SPEED		
1	4981310	BKT RSP 150" 8.00YD3 PO		
1	1099051	SEGMENT, BOLT-ON, SET OF 7		
8	3091123	TIP, HEAVY PENETRATION		
1	1060912	PROTECTORS, SIDEBAR, SET OF 2		
1	4884670	LIFT, HIGH (2V)		
1	4915355	GUARD, BOTTOM		
1	4887740	COUNTERWEIGHT, HIGH LIFT		
1	4839870	AUTOLUBE, HIGH LIFT		
1	4840020	REGIONAL PACKAGE, STANDARD		
1	5277343	COOLING, HIGH AMBIENT		

WARRANTY

POWERTRAIN + HYDRAULIC COVERAGE TILL 10/02/2021 OR 4,403 HOURS

SEGMENT TOTAL	518,880.00
SUBTOTAL BEFORE TAXES	518,880.00
NON-TAX INDIANA RESALE	0.00

PAYMENT TERMS

A monthly Finance Charge of 1.00% (12% APR) will be added on all past due amounts. Title to goods remains with the seller until full payment is received.

CREDIT AMOUNT	
DO NOT PAY	
PAY THIS AMOUNT	518,880.00

Heritage Aggregates, LLC
 P.O. Box 68123
 Indianapolis, IN 46268-0123

Wells Fargo Wires, ACH
 San Francisco, CA

EFT00014636

11-24/1210

DATE 10/12/2021

PAY AMOUNT

\$0.00 ***

PAY **** Non-Negotiable: Amount transferred Via Electronic Funds Transfer

To The Order Of

MACALLISTER MACHINERY CO., INC

VOID



Heritage Aggregates, LLC

Check Number: EFT00014636

To: MACALLISTER MACHINERY CO., INC 101551

Date: 10/12/2021

Invoice Number	Date	Voucher Number	Description	Amount	Discount	Paid Amount
R71412856802	June 18, 2021	0000000000011910	Acct 4678000	\$446.83	\$0.00	-\$446.83
MS4194040	June 23, 2021	0000000000011924	Acct 4678000	\$550,000.00	\$0.00	-\$550,000.00
MS4194045	June 23, 2021	0000000000011924	Acct 4678000	\$550,000.00	\$0.00	\$550,000.00
S4264316	July 13, 2021	0000000000011910	Acct 4678000	\$3,341.40	\$0.00	\$3,341.40
MR4389426	August 13, 2021	0000000000011904	Acct 3346464	\$16,933.75	\$0.00	\$16,933.75
MR4493779	September 10, 2	0000000000011904	Acct 3346464	\$16,933.75	\$0.00	\$16,933.75
R65390641211	September 12, 2	0000000000011840	Acct 3346451	\$3,283.00	\$0.00	\$3,283.00
P4497864	September 12, 2	0000000000011847	Acct 3346451	\$293.08	\$0.00	\$293.08
P4497865	September 12, 2	0000000000011847	Acct 3346451	\$1,327.54	\$0.00	\$1,327.54
P4497866	September 12, 2	0000000000011847	Acct 3346451	\$40.84	\$0.00	\$40.84
P4500206	September 13, 2	0000000000011847	Acct 4678000	\$311.02	\$0.00	\$311.02
P4505369	September 14, 2	0000000000011851	Acct 4678000	\$13.32	\$0.00	\$13.32
P4508133	September 14, 2	0000000000011851	Acct 3346453	\$243.98	\$0.00	\$243.98
P4508134	September 14, 2	0000000000011851	Acct 3346453	\$80.79	\$0.00	\$80.79
P4507919	September 14, 2	0000000000011853	Acct 3346452	\$891.88	\$0.00	\$891.88
P4504806	September 14, 2	0000000000011853	Acct 7046979	\$227.99	\$0.00	\$227.99
P4507515	September 14, 2	0000000000011854	Acct 7046979	\$85.27	\$0.00	\$85.27
S4510771	September 15, 2	0000000000011859	Acct 4678000	\$2,775.71	\$0.00	\$2,775.71
P4518691	September 16, 2	0000000000011859	Acct 3346453	\$189.44	\$0.00	\$189.44
P4517944	September 16, 2	0000000000011865	Acct 3346451	\$120.60	\$0.00	\$120.60
P4518608	September 16, 2	0000000000011875	Acct 7046979	\$220.81	\$0.00	\$220.81
P4519195	September 16, 2	0000000000011875	Acct 7046979	\$25.38	\$0.00	\$25.38
P4515489	September 16, 2	0000000000011887	Acct 3346458	\$70.99	\$0.00	\$70.99
S4515803	September 16, 2	0000000000011904	Acct 4678100	\$14,156.35	\$0.00	\$14,156.35
S4515820	September 16, 2	0000000000011905	Acct 4678100	\$2,863.92	\$0.00	\$2,863.92
R66429054201	September 16, 2	0000000000011919	Acct 3346459	\$481.63	\$0.00	\$481.63
P4521881	September 17, 2	0000000000011887	Acct 3346458	\$216.44	\$0.00	\$216.44
MR4524053	September 17, 2	0000000000011900	Acct 8304645	\$9,516.90	\$0.00	\$9,516.90
TOTALS:				\$1,175,092.61	\$0.00	\$74,198.95

Heritage Aggregates, LLC
 P.O. Box 68123
 Indianapolis, IN 46268-0123

Wells Fargo Wires, ACH
 San Francisco, CA

EFT00014019

11-24/1210

DATE 07/12/2021

PAY AMOUNT

\$0.00 ***

PAY **** Non-Negotiable: Amount transferred Via Electronic Funds Transfer

To The Order Of

MACALLISTER MACHINERY CO., INC

VOID

Heritage Aggregates, LLC

Check Number: EFT00014019

To: MACALLISTER MACHINERY CO., INC

101551

Date:

07/12/2021

Invoice Number	Date	Voucher Number	Description	Amount	Discount	Paid Amount
P3764849	March 4, 2021	0000000000011621	Acct 3346464	\$601.06	\$0.00	\$601.06
P3865152	March 31, 2021	0000000000011621	Acct 3346464	\$208.99	\$0.00	\$208.99
MR4071723	May 21, 2021	0000000000011621	Acct 3346464	\$16,933.75	\$0.00	\$16,933.75
P4153833	June 14, 2021	0000000000011542	Acct 3346451	\$92.09	\$0.00	\$92.09
S4156866	June 14, 2021	0000000000011542	Acct 3346451	\$60.42	\$0.00	\$60.42
P4153919	June 14, 2021	0000000000011545	Acct 3346461	\$716.23	\$0.00	\$716.23
P4153920	June 14, 2021	0000000000011545	Acct 3346461	\$32.00	\$0.00	\$32.00
P4153921	June 14, 2021	0000000000011545	Acct 3346461	\$761.80	\$0.00	\$761.80
P4153922	June 14, 2021	0000000000011545	Acct 3346461	\$30.17	\$0.00	\$30.17
P4153923	June 14, 2021	0000000000011545	Acct 3346461	\$608.76	\$0.00	\$608.76
P4153924	June 14, 2021	0000000000011545	Acct 3346461	\$6,037.80	\$0.00	\$6,037.80
MR4153825	June 14, 2021	0000000000011585	Acct 3346454	\$14,273.77	\$0.00	\$14,273.77
P4162495	June 15, 2021	0000000000011549	Acct 4678000	\$11.41	\$0.00	\$11.41
P4162515	June 15, 2021	0000000000011549	Acct 4678000	\$1,682.48	\$0.00	\$1,682.48
P4162540	June 15, 2021	0000000000011549	Acct 4678000	\$81.09	\$0.00	\$81.09
P4162652	June 15, 2021	0000000000011549	Acct 4678000	\$818.95	\$0.00	\$818.95
R65409947501	June 15, 2021	0000000000011551	Acct 3346454	\$3,038.72	\$0.00	\$3,038.72
P4159519	June 15, 2021	0000000000011564	Acct 4678100	\$296.36	\$0.00	\$296.36
P4159518	June 15, 2021	0000000000011568	Acct 4678100	\$10.62	\$0.00	\$10.62
P4162606	June 15, 2021	0000000000011573	Acct 3346452	\$160.81	\$0.00	\$160.81
P4158960	June 15, 2021	0000000000011578	Acct 3346458	\$6.07	\$0.00	\$6.07
P4158961	June 15, 2021	0000000000011578	Acct 3346458	\$16.00	\$0.00	\$16.00
P4158962	June 15, 2021	0000000000011578	Acct 3346458	\$20.77	\$0.00	\$20.77
P4158963	June 15, 2021	0000000000011578	Acct 3346458	\$24.28	\$0.00	\$24.28
S4158877	June 15, 2021	0000000000011585	Acct 3346454	\$1,270.41	\$0.00	\$1,270.41
R71414586001	June 15, 2021	0000000000011622	Acct 8306503	\$2,809.22	\$0.00	\$2,809.22
P4164011	June 16, 2021	0000000000011560	Acct 4678000	\$184.14	\$0.00	\$184.14
P4164436	June 16, 2021	0000000000011560	Acct 4678000	\$149.51	\$0.00	\$149.51
P4164443	June 16, 2021	0000000000011560	Acct 4678000	\$583.00	\$0.00	\$583.00
P4166933	June 16, 2021	0000000000011560	Acct 4678000	\$6.35	\$0.00	\$6.35
P4166976	June 16, 2021	0000000000011560	Acct 4678000	\$147.34	\$0.00	\$147.34
R71412856801	June 16, 2021	0000000000011561	Acct 4678000	\$5,996.45	\$0.00	\$5,996.45
R66407785502	June 16, 2021	0000000000011574	Acct 3346459	\$17,050.19	\$0.00	\$17,050.19
R66413351501	June 16, 2021	0000000000011575	Acct 3346459	\$454.30	\$0.00	\$454.30
P4164257	June 16, 2021	0000000000011578	Acct 3346458	\$1.84	\$0.00	\$1.84
MR4164493	June 16, 2021	0000000000011584	Acct 7046965	\$10,225.00	\$0.00	\$10,225.00
S4170435	June 17, 2021	0000000000011560	Acct 7046965	\$1,051.19	\$0.00	\$1,051.19
S4173275	June 17, 2021	0000000000011573	Acct 3346459	\$3,607.66	\$0.00	\$3,607.66
P4169967	June 17, 2021	0000000000011578	Acct 3346455	\$36.99	\$0.00	\$36.99
MR4171760	June 17, 2021	0000000000011600	Acct 8304646	\$10,319.40	\$0.00	\$10,319.40
P4175626	June 18, 2021	0000000000011561	Acct 3346451	\$141.65	\$0.00	\$141.65
P4176620	June 18, 2021	0000000000011561	Acct 3346453	\$122.65	\$0.00	\$122.65
P4176621	June 18, 2021	0000000000011561	Acct 3346453	\$102.22	\$0.00	\$102.22
P4176622	June 18, 2021	0000000000011561	Acct 3346453	\$104.34	\$0.00	\$104.34
P4175160	June 18, 2021	0000000000011564	Acct 4678100	\$21.90	\$0.00	\$21.90
P4175173	June 18, 2021	0000000000011564	Acct 4678100	\$21.90	\$0.00	\$21.90
S4176034	June 18, 2021	0000000000011564	Acct 4678000	\$1,217.88	\$0.00	\$1,217.88
R65412262501	June 18, 2021	0000000000011570	Acct 7046965	\$2,797.31	\$0.00	\$2,797.31
TOTALS:						

Heritage Aggregates, LLC

Check Number: EFT00014019

To: MACALLISTER MACHINERY CO., INC 101551

Date: 07/12/2021

Invoice Number	Date	Voucher Number	Description	Amount	Discount	Paid Amount
P4176767	June 18, 2021	0000000000011574	Acct 3346459	\$58.92	\$0.00	\$58.92
P4176780	June 18, 2021	0000000000011574	Acct 3346459	\$216.50	\$0.00	\$216.50
R66413079001	June 18, 2021	0000000000011574	Acct 3346459	\$3,216.58	\$0.00	\$3,216.58
R67414813801	June 18, 2021	0000000000011580	Acct 7046960	\$243.50	\$0.00	\$243.50
P4177581	June 18, 2021	0000000000011584	Acct 7046960	\$79.35	\$0.00	\$79.35
P4177612	June 18, 2021	0000000000011584	Acct 7046960	\$133.59	\$0.00	\$133.59
P4178213	June 18, 2021	0000000000011585	Acct 7046960	\$385.75	\$0.00	\$385.75
P4176125	June 18, 2021	0000000000011594	Acct 3346458	\$251.17	\$0.00	\$251.17
R71403979503	June 18, 2021	0000000000011597	Acct 8304645	\$304.97	\$0.00	\$304.97
MR4176741	June 18, 2021	0000000000011622	Acct 3346464	\$16,933.75	\$0.00	\$16,933.75
R68369236712	June 19, 2021	0000000000011597	Acct 8304645	\$3,487.50	\$0.00	\$3,487.50
MS4194057	June 23, 2021	0000000000011635	Acct 7046979	\$290,000.00	\$0.00	\$290,000.00
MS4194102	June 23, 2021	0000000000011635	Acct 7046979	\$518,880.00	\$0.00	\$518,880.00
P4230563	July 2, 2021	0000000000011635	Acct 3346451	\$1,659.48	\$0.00	-\$1,659.48
P4239112	July 6, 2021	0000000000011635	Acct 3346451	\$509.88	\$0.00	-\$509.88
TOTALS:				\$941,308.18	\$0.00	\$936,969.46

Scoring Criteria Summary

- I. Cost effectiveness of project (\$ per ton of NOx reduced)**
-\$3,018 total project cost of NOx ton reduced.
- II. Transformational potential**
-This Tier 4-Final clean diesel project will offer significant emission reduction for future construction projects that utilize aggregate from U.S. Aggregates. This project address emission reduction from a heavily utilized, unregulated diesel wheel loader.
- III. Project's total NOx emission reduction potential (based on type of project and/or the use of vehicle):**
-Project will reduce 98% NOx reduction or over 75 tons of NOx for air quality improvements.
- IV. NAAQS sensitive areas as a percentage of current standards.**
-This project will be located in the Indiana counties of Bartholomew and Randolph which are not identified for NAAQS sensitive areas.
- V. Air quality benefits to areas with sensitive populations or that bear a disproportionate share of the air pollution burden.**
-This project has significant reductions in NOx, PM2.5, HC, and CO. This project has a close proximity to residential housing and is located in an area of high operation of heavy-duty diesel engines.
- VI. Leveraging of Resources (financial or resource match)**
-This project seeks to leverage over \$1,019,160 in private funds for the purchase of Tier 4-Final used equipment.
- VII. Entities registered with the Indiana Secretary of State that operate vehicles and equipment in conjunction with Indiana facilities (include Indiana Economic Impact documentation).**
-All equipment is domiciled and used in Indiana. State documents are attached.
- VIII. Active participant in the State of Indiana, Department of Administration or Department of Transportation Minority/Women/Veterans Business Enterprise Participation Plan (include MBE/WBE/VBE documentation).**
-U.S. Aggregates has a commitment to hiring veterans and is contracted on many INDOT projects but is not a certified DBE/MBE/VBE.

Project Title: Clean Diesel Aggregates

Solicitation: 2020 DIESELWISE INDIANA – DERA with Volkswagen DERA Option

Category: Nonroad Diesel Vehicle and Equipment Replacement

Grantee Information: U.S. Aggregates, Inc.
Lynn Shireman, V.P. Equipment
5400 W. 86th St.
Indianapolis, IN 4628
Phone: 317-283-3545
Email: lshireman@thgrp.com

Table 1: General Fleet Information	
Number of Pieces of Equipment	3
Annual Hours Usage (Per Equipment)	1,225 hours
Estimated Monthly Idle Hours	38 hours per month
Estimated Monthly Fuel Consumption	6,821 Diesel Gallons Per Month
Estimated Monthly Use (Hours)	408 Hours per equipment
Equipment To Be Replaced (Engine Details)	2007 Eucid R-35 (Tier 3, 450 HP) 2007 Komatsu WA600-6 (Tier 3, 530 HP) 1994 Euclid R60 (Tier 0, 668 HP)
Proposed new Equipment	2017 (Tier 4-F, 515 HP) 2018 (Tier 4-F, 449 HP) 2015 (Tier 4-F, 775 HP)
Estimated Years to Remain in Active Fleet	4-7 years

Total Project Cost

Funding Requested: **\$339,720.00 (25%)**

Applicant Match: **\$1,019,160.00 (75%)**

Total Project Cost: **\$1,358,880.00**

Project Period

In the table outlined below, the Clean Diesel Aggregates projected timeline is planned out with dates, tasks and deliverables for this project. Once awarded, this project will be able to be completed within the given timeframe of September 30, 2022.

Table 2: Project Period and Task Description		
Task	Task Description and Deliverable	Date
Task A	Grant Agreement Execution.	1/15/21
Task B (1)	The Grantee shall provide written quarterly progress reports.	On Going
Task B (2)	Pursue EPA and CARB certified vendors for ordering of replacement Tier 4-Final clean diesel replacement loader and place order for replacement equipment.	2/15/21
Task B (3)	Assist with outreach for on-site industry and local community (speak at IN Volkswagen/IDEM meetings). Assist with identifying additional stakeholders for this or future environmental projects in the surrounding area. U.S. Aggregates, Inc., will work with IDEM and Indiana Clean Diesel Coalition to promote clean diesel activities across Indiana.	Ongoing
Task B (4)	Accept delivery of Tier 4-Final replacement equipment. and destroy the engine of current diesel equipment while documenting. Provide payment for new equipment.	6/01/21
Task C (1)	Provide documentation of scrappage equipment, proof of purchase, and complete final report. Submit final report.	6/01/22
Task C (2)	Assist IDEM with the preparation of documentation for IDEM to submit to VW Mitigation Beneficiary, including a final report summarizing the results of the project.	On going
Task D	Project Completion.	9/30/22

The grantee will provide all necessary documentation for reimbursement and will follow the scrappage requirements of rendering the identified loader unoperable by cutting a hole 3" x 3" in the side of engine block. All equipment replacements will be replaced with EPA certified Tier 4-Final engine powered equipment.

Project Description

U.S. Aggregates, Inc., (U.S. Aggregates) began providing high quality aggregates to the construction industry in 1967 with just two operations. Over the past 53 years, U.S. Aggregates has grown this Indiana based firm into 17 quarries across Indiana. The success that U.S. Aggregates has been able to obtain in over 5 decades is due to its commitment to customer service, quality aggregate and continued equipment uptime. In recent projects associated with the Indiana Department of Transportation (INDOT), there were issues when the previous contracted aggregate companies that were

providing stone were not able to meet demand. U.S. Aggregates was able to provide the needed aggregate resources in order to complete the I-69 project and stay on schedule.

As a company that needs to meet large volume customer aggregate demands, the backbone of this company is the heavy-duty diesel equipment operating at its quarries in order to process and make the aggregate available for needed customer demands. This project related equipment is made up of three pieces of equipment, between two quarry locations of 1972 W. SR 28, Ridgeville, IN 47380 and 3415 S. 650 East, Columbus, IN 47203. The equipment proposed for replacement are two off road trucks and one wheel loader. The specific information for these pieces of equipment is detailed below:

Table 3: Clean Diesel Aggregates – Current Project Equipment Details								
Location	Make	Model	Year	Equipment Type	Engine Model Year	Engine Horsepower	Current Hours	Annual Diesel Gallons Used
Ridgeville, IN	Euclid	R35	1988	Off-Road Truck	2007 ¹	450	928	19,488
Ridgeville, IN	Komatsu	WA-600	2008	Loader	2007	530	1,696	28,832
Columbus, IN	Euclid	R-60	1994	Off-Road Truck	1994	775	1,051	33,527

In reference to the project related equipment listed in table 3, these three pieces of equipment combined represent highly utilized equipment, high horsepower engines, and high diesel consumption. The table represents current equipment powered by engines with either unregulated or Tier 3 emissions. These heavy-duty pieces are heavily relied upon in U.S. Aggregates operations in Ridgeville and Columbus, Indiana.

The equipment proposed to replace the three project related loader and trucks, is used equipment, however the engines of the equipment are certified to Tier 4-Final standards. This project represents cost efficient alternatives to brand new equipment pricing, that still meets the goals listed in the 2020 DieselWise Indiana’s RFP. The details of the Tier 4-Final replacement equipment is detailed in the table below:

Table 4: Clean Diesel Aggregates – Proposed Replacement Equipment							
Location	Make	Model	Year	Equipment Type	Engine Model Year	Engine Horsepower	Serial Number
Ridgeville, IN	Caterpillar	770G	2017	Off-Road Truck	2017	515	KDH00385
Ridgeville, IN	Caterpillar	986K	2018	Loader	2018	449	SWH00262
Columbus, IN	Caterpillar	773G	2015	Off-Road Truck	2015	668	JWS00313

¹ Engine was remanufactured in 2007

U.S. Aggregates recognizes the air benefit of replacing current off-road equipment with used equipment that still meets the most recent Tier 4-Final emission standards for high horsepower engines. In addition to the emission benefits there is gallon per hour (GPH) data of the equipment that was collected in order to measure the performance standards on the current equipment versus the used Tier 4-Final equipment. These performance measures were collected from the engine control modules. This information is detailed in the table below:

Table 5: Clean Diesel Aggregates – Equipment Efficiency

Location	Current Equipment	GPH	Proposed Tier 4-Final Equipment	GPH	Increased Efficiency	Estimated Life Remaining
Ridgeville, IN	Euclid R35	21	Caterpillar 773G	5.6	73%	21 Years
Ridgeville, IN	Komatsu WA-600	17	Caterpillar 7988	6.4	62%	22 Years
Columbus, IN	Euclid R60	31.9	Caterpillar	12.3	61%	19 Years

These increased efficiencies average a 66 percent increase fuel efficiency through the replacement with the Tier 4-Final clean diesel equipment. This overall efficiency represents an annual displacement of 45,704 diesel gallons reduced. This project combines the cost efficient Tier 4-Final equipment that can reduce a significant amount of diesel emissions and diesel gallon consumption. These Tier 4-Final pieces of equipment will have an estimated life between 19 and 22 years to remain operational within the fleet.

Off-Road Truck and Wheel Loader Operation

The two quarries located in Columbus and Ridgeville have duplicate quarry aggregate operations. The proposed replacement equipment will be domiciled at their respective locations for the life of the equipment. The off-road trucks are used to transport large volume aggregate material from one area to another. These off-road trucks are never driven on-road. They are heavy-duty pieces of equipment that are relied upon to carry 20-30 cubic yards in a haul.

The wheel loader in Ridgeville is responsible to support all of the loading activities at the quarry. This includes loading aggregate into the crusher, screener, offroad truck beds, semi truck trailers, and other operations around the quarry. All three pieces of the proposed equipment are well maintained and will continue to operate within the U.S. Aggregates fleet for years to come.

Air Quality for Batholomew and Randolph County

The Columbus facility is located in Bartholomew County, which according to U.S. Census Bureau data has a population of 83,779. The Ridgeville facility is located in Randolph County, which according to U.S. Census Bureau data has a population of 24,665.

U.S. Census Bureau data indicates 13.6 percent of Randolph County residents live in poverty, compared to the 10.5 percent national average. The county also has a higher percentage of population with a disability, under the age of 65 year at 11.7 percent compared to the national average of 8.6 percent. At the same time, Randolph county also has a higher rate of persons over the age of 65, at 20.8 percent compared to the national average of 16.5 percent, according to U.S. Census Bureau data.

All of these residents fall under the “sensitive populations” category for air pollutants. The Centers for Disease Control and Prevention National Environmental Health Tracking Network shows 14.4 percent of Indiana adults have asthma compared to 7 percent at the national level. Although Bartholomew County is not identified as an at risk county, this project still provides air quality benefits to the employees of U.S. Aggregates and the surrounding geographical region.

This project would have a positive air quality impact on the public, specifically the surrounding community due to the amount of heavy-duty diesel pieces of equipment that operate at these facilities and the amount of semi-truck transfer trucks that frequent this facility as well.

In the table below, the project emissions were calculated utilizing the United States Environmental Protection Agency’s (EPA) Diesel Emission quantifier (DEQ). Through the implementation of this project, approximately 75 tons of nitrogen oxides will be reduced. As a result of this reduction, the negative health effects of exposure from nitrogen oxides for people with asthma, children and older adults will be mitigated. In consideration to the other emissions quantified, carbon monoxide and particulate matter are reduced by over 99%. This clean diesel project will continue to reduce diesel emissions throughout the life of the equipment.

Table 6: U.S. Aggregates – Clean Diesel Aggregates						
Estimated Annual Emissions Reductions						
<i>Data was used utilizing the most current U.S. EPA Diesel Emission Quantifier</i>						
<u>Annual Results</u> <i>(short tons)</i>	NO_x	PM_{2.5}	HC	CO	CO₂	Fuel
Baseline for Upgraded Vehicles	76.880	8.893	7.198	54.213	920.8	81,846
Amount Reduced After Upgrades	75.388	8.867	7.020	54.089	514.2	45,704
Percent Reduced After Upgrades	98.1%	99.7%	97.5%	99.8%	56.3%	56.3%
<u>Lifetime Results</u> <i>(short tons)</i>	NO_x	PM_{2.5}	HC	CO	CO₂	Fuel



Baseline for Upgraded Vehicles	459.022	53.061	43.031	323.889	4,981.0	442,756
Amount Reduced After Upgrades	450.292	52.914	42.073	323.215	2,802.1	249,077
Percent Reduced After Upgrades	98.1%	99.7%	97.8%	99.8%	56.3%	56.3%
<u>Lifetime Cost Effectiveness</u> <i>(\$/short ton reduced)</i>	NO_x	PM_{2.5}	HC	CO	CO₂	
Total Cost Effectiveness (includes all project costs)	\$3,018	\$25,681	\$32,298	\$4,204	\$485	

This project represents a significant decrease in diesel emission reductions in just one year. Over the lifetime of the Tier 4-Final clean diesel loader, the citizens of Indiana will benefit from additional construction projects that were sourced from cleaner produced aggregate materials from U.S. Aggregates.

Project Success

The success of this project will be based upon continued diesel emission reduction operations, fuel savings and uptime of the Tier 4-Final clean diesel off-road trucks and wheel loader. The management of the aggregates that are utilized from these two quarries require the operation of heavy-duty equipment. U.S. Aggregates continues to be leader in aggregate production solutions in Indiana. This project confirms their commitment to clean air. The economical and fuel availability in which clean diesel represents allows this entity to continue operations and provide aggregate for construction projects across Indiana.

Grantees and Partner Roles

SSCC is an Indiana 501(c)(3) nonprofit organization whose aim is to educate and assist both public and private fleet owners and individuals. The purpose of SSCC is to help meet the requirements of the national Energy Policy Act of 1992, which is aimed at promoting national energy security; and to help meet the requirements of the federal Clean Air Act as amended in 1990, which strives to promote clean air. SSCC is a SmartWay Affiliate Partner and will commit to promoting the use of alternative fuels as well as idle and fuel use reduction and air quality improvement efforts.

In addition to the purchase and deployment activities, U.S. Aggregate is also a member of the Indiana Green Fleet program managed by SSCC. The Indiana Green Fleet program’s purpose is to significantly improve the environmental performance of fleets across Indiana. SSCC conducts fleet audits to compare alternative fuels and idle reduction technologies while creating policies that support petroleum and vehicle emission reductions.

USAGGREGATES

SSCC will track idling and fuel consumption on the existing equipment to provide a baseline to evaluate the success of the project. The same data will be tracked on the new vehicle upon deployment. Fuel cost savings, fuel usage, idle time and estimated emissions reductions will be tracked throughout the project. The data collected will allow for evaluation of the public benefits of the project and help assess the business case for similar projects for other Green Fleet Program members.

- Promoting diesel emission reduction projects and use policies and education and awareness programs with its employees.
- Celebrating and announcing the success of these projects with a press conference with IDEM.
- U.S. Aggregates is a member of the SSCC Green Fleet Program which promotes partnerships and training with:
 - IDEM DieselWise
 - IDEM Partners for Clean Air
 - IDEM Environmental Stewardship Program
 - IDEM Partners for Pollution Prevention
 - U.S. EPA Midwest Clean Diesel Initiative and SmartWay Affiliate

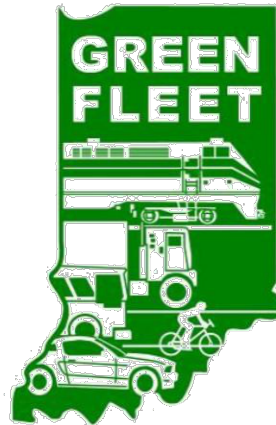


Table 7: U.S. Aggregates – Clean Diesel Aggregates Contact Information

Contact	Organization/Title	Phone	Email
Lynn Shireman	U.S. Aggregates/V.P. of Equipment	317-283-3545	lshireman@thgrp.com
Ryan Lisek	South Shore Clean Cities/Project Manager	219-644-3690	rlisek@southshorecleancities.org

Evaluation Criteria

This project aims to address diesel emissions in the State of Indiana. This project encompasses pieces of equipment that are needed in order to perform necessary functions in the procurement of Indiana natural resources that contribute to the development of projects within the state and surrounding geographical regions. Managing and transferring these precious materials are vital to Indiana's economy. The use of heavy-duty equipment and trucks is paramount to this operation. The quarries are in proximity to areas with sensitive populations. The goal is to reduce diesel emissions, specifically nitrogen oxides, from an industry that is relied upon to provide economic benefits to the state and the communities it serves.

This project reduces significant amounts of identified emissions and toxic pollutants identified within the 2020 DieselWise Indiana – DERA with Volkswagen DERA Option RFP. This new replacement vehicle will utilize diesel as a primary fuel, although other fuel options were taken into consideration. Currently available alternative fuel options for this type of equipment are not viable. Tier – 4 Final clean diesel is the only option available for this high horsepower engine needed to power this type of equipment. This project will be implemented seamlessly into current fleet operations and will continue to operate through the entirety of the 25-year life of the equipment.

Table 8. Itemized Budget

Description	Total Project Cost	2020 DieselWise Funds (25% Cost Share)	Applicant Share (75% Cost Share)
2017 Caterpillar 770G (Tier 4-Final)	\$290,000.00	\$72,500.00	\$217,500.00
2018 Caterpillar 986K (Tier 4-Final)	\$518,880.00	\$129,720.00	\$389,160.00
2015 Caterpillar 773G (Tier 4-Final)	\$550,000.00	\$137,500.00	\$412,500.00
Totals	<u>\$1,358,880.00</u>	<u>\$339,720.00</u>	<u>\$1,019,160.00</u>

Appendices

- A. Cost Share Commitment Letters
- B. W-9
- C. State Form 51778
- D. State Form 47551
- E. Equipment Quotes
- G. DieselWise Indiana Fleet Data Spreadsheet (Attached in email)



November 19, 2020

Mr. Shawn M. Seals
DieselWise Indiana Administrator
Indiana Department of Environmental Management
100 North Senate Avenue
Mail Code 61-50 IGCN 1003
Indianapolis, IN 46204-2251

RE: 2020 DIESELWISE INDIANA – DERA with Volkswagen DERA Option

Dear Mr. Seals:

On behalf of US Aggregates, I am pleased to offer this letter of support for the Indiana Office of Environmental Management's (IDEM) 2020 DIESELWISE INDIANA – DERA with Volkswagen DERA Option Program. This cost-effective clean air project will significantly reduce diesel emissions from nonroad equipment operating in Indiana. This specific project will reduce diesel emission in Randolph County, Indiana.

US Aggregates acknowledges by submission of this funding request, assures that it possesses, or will possess the local (non-federal) funding needed to pay project related expenses. US Aggregates is prepared to immediately implement this project and will complete this nonroad equipment replacement project within the required timeline.

We appreciate the opportunity to support this very beneficial project and contribute to Indiana's air quality improvements. If you have any questions about this application, please contact Lynn Shireman at (317) 283-9545.

Sincerely,

Handwritten signature of Duane Gibbs in blue ink.

Duane Gibbs
Finance Manager

Handwritten signature of Lynn Shireman in blue ink.

Lynn Shireman
VP Equipment



PO Box 68123, Indianapolis, IN 46268



317.434.4600



317.228.8341



usagg.com

770G

Off-Highway Truck



Engine

Engine Model	Cat® C15 ACERT™	
Gross Power – SAE J1995	384 kW	515 hp
Net Power – SAE J1349	356 kW	477 hp

Weights – Approximate

Target Gross Machine Operating Weight	71 214 kg	157,000 lb
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Operating Specifications

Target Payload Capacity	38.2 tonnes	42.1 tons
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- Nominal payload and capacity based on Dual Slope body with no liner. Attachment selection will affect payload and maximum gross machine operating weight.
- Refer to Caterpillar 10/10/20 Payload Policy for maximum gross machine weight limitations.

986K

Wheel Loader



Engine

Engine Model	Cat® C15 ACERT™	
Emissions	U.S. EPA Tier 4 Final/EU Stage IV, or China Nonroad Stage III and Brazil MAR-1 equivalent to Tier 3 and Stage IIIA	
Gross Power – ISO 14396	335 kW	449 hp

Buckets

Bucket Capacities	5-10.3 m ³	6.5-13.5 yd ³
Operating Specifications		
Rated Payload – Quarry Face	10 tonnes	11 tons
Rated Payload – Loose Material (Standard)	12.7 tonnes	14 tons
Rated Payload – Loose Material (High Lift)	11 tonnes	12.1 tons
Operating Weight	44 818 kg	98,806 lb

773G

Off-Highway Truck



Engine (Tier 4 Final)

Engine Model	Cat® C27 ACERT™	
Gross Power – SAE J1995	578 kW	775 hp
Net Power – SAE J1349	534 kW	717 hp

Engine (Tier 2 Equivalent)

Engine Model	Cat® C27 ACERT™	
Gross Power – SAE J1995	578 kW	775 hp
Net Power – SAE J1349	546 kW	733 hp

Weights – Approximate (Tier 4 Final)

Maximum Gross Vehicle Weight	102 740 kg	226,503 lb
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~~Weights – Approximate (Tier 2 Equivalent)~~

Maximum Gross Vehicle Weight	102 740 kg	226,503 lb
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Operating Specifications (Tier 4 Final)

Nominal Payload Class (100%)	55.3 tonnes	61.0 tons
Maximum Working Payload (110%)	60.8 tonnes	67.0 tons
Not to Exceed Payload (120%)*	66.3 tonnes	73.1 tons
Body Capacity – SAE 2:1	35.75 m ³	46.75 yd ³

~~Operating Specifications (Tier 2 Equivalent)~~

Nominal Payload Class (100%)	56.0 tonnes	61.7 tons
Maximum Working Payload (110%)	61.5 tonnes	67.8 tons
Not to Exceed Payload (120%)*	67.1 tonnes	74.0 tons
Body Capacity – SAE 2:1	35.75 m ³	46.75 yd ³

• Capacity with dual slope body – no liner.

* Refer to the Caterpillar 10/10/20 Payload Guidelines for maximum gross machine weight limitations.