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 - RH Marlin Cranes Replacement
Funding Request No.	(sequential) 89
Request Type: (select one or more)	Reimbursement Image: Advance Other (specify): Image: Advance
Payment to be made to: (select one or more)	□ Beneficiary ■ Other (specify): <u>Grantee:</u> RH Marlin, Inc. as detailed in Attachment A
Funding Request & Direction (Attachment A)	 Attached to this Certification To be Provided Separately

SUMMARY

Eligible Mitigation Action Appendix D-2 item (specify): Action Type ■ Item 10 - DERA Option (5.2.12) (specify and attach DERA Proposal): Attached

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.

<u>ATTACHMENTS</u> (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).
V	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 <u>, State of Indiana</u>, 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:

10/20/23

instass, Countsstares [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 NOx, the Indiana Volkswagen Environmental Mitigation Trust Fund Program will prioritize sustainable projects that are transformative, positively impacting the environment, enhancing the health and wellbeing 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 NOx 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 NOx, 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 three (3) 2020 model-year, or newer, U.S. EPA emission compliant (Tier 4) all-electric-powered mobile cranes that will REPLACE three (3) of the Grantee's Pre-Tier 4 existing diesel-powered mobile cranes that will be used for the same purpose. The replacement vehicles will be located and primarily operated in Indianapolis, Indiana.

All-electric-powered mobile cranes dramatically improve air quality and the quality-of-life conditions for operators, 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 3.228 tons of nitrogen oxides (NOx) and 0.142 tons of fine particulate matter (PM2.5).

Estimate of Anticipated NOx Reductions (5.2.3):

Over the lifetime of this mobile crane, U.S. EPA's DEQ model estimates this project will result in a NOx reduction of 3.228 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 7% of the total project cost while the Grantee and/or other programs covers the remaining 93%.

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.

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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 17, 2023
Grantee project implementation	April 17, 2023 to September 30, 2023
Indiana reviews programmatic, financial, and other 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	October 24, 2023
Indiana coordinates with Trustee on any questions or issues that arise related to the submitted Appendix D-4	October 24, 2023 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 three (3) 2020			
model-year, or newer, U.S. EPA			
emission compliant (Tier 4) all-	\$151,479.19	\$1,955,693.55	\$2,107,172.74
electric-powered mobile cranes and			
one (1) 2020 model-year, or newer,			
U.S. EPA emission compliant (Tier 4)			

diesel-powered excavator that will			
REPLACE three (3) of the Grantee's			
Pre-Tier 4 existing diesel-powered			
mobile cranes and one (1) of the			
Grantee's Pre-Tier 4 existing diesel-			
powered excavators that will be used			
for the same purpose. The			
replacement vehicle will be located			
and primarily operated in and			
around Indianapolis, Indiana.			
Percentage	7%	93%	100%

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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	\$17.486.157.12
Submittals	\$17,480,137.12
3) State of Indiana's Net Remaining Allocation	¢22 440 722 47
Prior to this D-4 Submittal	<i>\$</i> 23,445,723.47
4) Current D-4 Funding Request Total	\$151,479.19
5) State of Indiana's Remaining Allocation After	\$22,208,244,28
this D-4 Submittal	\$23,236,244.26

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

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Projected Trust Allocations:

	2020	2021	2022	2023
1) Anticipated Annual Project Funding Request to be paid through	\$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	\$5,165,086.48	\$3,473,814.04
5) Current Beneficiary Project Funding to be paid through the Trust (Line 1)	\$101,199.00	\$130,705.00	\$9,000.00	\$151,479.19
6) Total Funding Allocated to Beneficiary, inclusive of Current Action by Year (Line 4 + Line 5)	\$3,996,653.40	\$4,841,603.20	\$5,174,086.48	\$3,625,293.23
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	\$26,923,537.51
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	\$26,923,537.51	\$23,298,244.28

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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 sixmonth 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 sixmonth 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:





West Thompson Road • Indianapolis, Indiana 46217 P: (317) 786-4356 • F: (317) 786-4469 • TF: (800) 382-7728 Interest at 1.5% per month [18% Annual Percentage) will be added if invoice is not paid within 30 days from date of invoice. That in the event that the stated individual fails to pay said leas and expenses, he will become liable for Court costs and attorney's fees incurred in callecting said debt.

September 21, 2023

Indiana Department of Environmental Management Attn: Shawn M. Seals Office of Air Quality – Mail Code 61-50 100 N. Senate Ave Indianapolis, IN 46204-2251

RE: 2021 IN VW Settlement - DOR2-006

Amount: \$ 623,317.05

Equipment

Amount

#80512 - IGOT99	\$ 492,192.31
#80407 – IGOT130	\$ 537,110.83
#80102 – MDT489M25	\$ 1,077,869.60
	\$ 2,107,172.74

Total Amount Paid:	\$2,	107,172.74
Grant Match:	\$	761,831.95
Cost Share:	\$	623,317.05



INVOICE

Original

R H MARLIN INC 1151 W THOMPSON RD INDIANAPOLIS, IN 46217

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CONTRACTOR	Telephone	: 717-597-8	L21		
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\$492,195.31

Jun 15, 2023 Post date

67515 Check #

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JPMorgan Chase Bank, N.A. Member FDIC

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Equal Housing Opportunity





JPMorgan Chase Bank, N.A. Member FDIC

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Equal Housing Opportunity



INVOICE

Original

R H MARLIN INC 1151 W THOMPSON RD INDIANAPOLIS, IN 46217

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Please state with payment: 92A/ 35140 Terms of Payment: Net 30

Terms of Delivery: Ex Works Please remit to: Grove U.S. L.L.C. PO Box 734270 Chicago, IL 60673-4270

Grove U.S. L.L.C. 1565 Buchanan Trail East P.O. Box 21 Shady Grove, Pennsylvania 17256-0021, USA Tel: (717) 597 8121 Fax: (717) 597 4766

Manitowoc Cranes Manitowoc cranes Product Support 1565 Buchanan Trail East P.O. Box 21 Shady Grove, Pennsylvania 17256-0021, USA Tel: (717) 597 8121 Fax: (717) 593 5929 (Parts) (717) 593 5928 (Service)



Manitowoc Cranes

1565 Buchanan Trail East Shady Grove, PA 17256-0021 T 717-597-8121 F 717-593-9999 www.manitowoc.com

Date August 2, 2023 To RH Marlin– Perry Bruce Subject 2023 Igo T130 S/N 624004 From

David Polce Regional Business Mgr. – Tower Cranes Manitowoc Crane Group

80407-1

Please find below our proposal for a Complete Set of 12 Igo T130 CWT Cans (filled) with concrete for your T130 S/N 624004.

Mast & Chassis Equipment:

- (12) 4,050kg (8,929 lbs. each) steel encased filled concrete ballast slabs.
- Paint Specifications:
- Sandblasted & Powder Coated for a durable finish.

Preferred Customer Price

- Priced at DNet Pricing, no further discount available; a PO# is required to secure order.
- Freight charges not included in this pricing.
- Certain mobilization charges may be applicable.

Delivery: CWT Cans x 12 : EWX Holland, MI

Terms: Cash in Advance Unless Net 30 Days is Approved by Manitowoc

All Sales subject to Manitowoc's Terms & Conditions of Sales.

Pricing for Igo T130 S/N 624004 only.

Warranty - 12 months, parts & labor.

Standard dealer terms - CIA.

All prices are in U.S. Dollars.

Pricing valid for 30 days from effective date unless otherwise specified.

Prices do not include any taxes or tariffs that, if applicable, are the purchaser's responsibility.

The purchaser is responsible for all freight and ancillary costs from EXW points.

Machinery must be removed from our inventory within 30 days of availability.

All claims regarding machine composition must be made within 60 days of pick up by customer.

Quotation does not include any ancillary items or services.

The purchaser is responsible for any demurrage.

Any additional options will be invoiced upon availability to the purchaser. Subject to prior sale.

\$ 61,068.00

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ORDER ACKNOWLEDGEMENT

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R H MARLIN INC 1151 W THOMPSON RD INDIANAPOLIS, IN 46217

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ORDER ACKNOWLEDGEMENT

R H MARLIN INC 1151 W THOMPSON RD INDIANAPOLIS, IN 46217

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Grove U.S. L.L.C.		Manicowoc Cranes		
P.O. Box 21		1565 Buchanan Trail East		
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		Fax: (717) 593 5929 (Parts) (717) 593 5928 (S	ervice)	

CONSTRUCTION AND INDUSTRIAL VENDOR

METHOD

09/22/2023 PAYMENT NUMBER PAYEE_NAME Purchases 9000399799

DIRECT VENDOR (WAYNE)

WIRE TRANSFER 0000181402-0001 WIRE TRANSFER

INT. REF. NBR.

0.00 1.077.869.60

NET AMOUNT

USD

GROVE U.S L.L.C - (V)



R. H. Marlin, Inc. 2020 DieselWise Indiana – DERA with Volkswagen DERA Option Submitted November 25, 2020

Scoring Criteria Summary

- Ι. Cost effectiveness of project (\$ per ton of NOx reduced) -\$160,580 total project cost of NOx ton Reduced.
- П. Transformational potential -R.H. Marlin's proposed crane replacements will be powered by all-electric engine technologies, while the proposed excavator will be powered by an EPA Tier-4 Final Engine.
- III. Project's total NOx emission reduction potential (based on type of project and/or the use of vehicle): -The proposed project will reduce 97.2% NOx reduction or over 10 tons of NOx.
- IV. NAAQS sensitive areas as a percentage of current standards. -This project will take place in Marion County, Indiana which is a designated air quality maintenance area for 2 criteria pollutants.
- **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 near residential housing and 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 \$1,005,807 in project matching funds.
- 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). -R.H. Marlin is not registered as a Minority/Women/Veterans business enterprise.



Project Title:	Clean Crane Indiana
Solicitation:	2020 DIESELWISE INDIANA – DERA with Volkswagen DERA Option
Category:	Nonroad Diesel Vehicle and Equipment Replacement
Grantee Information:	R.H. Marlin Inc. Joe Fox – Vice President 2202 West Thompson Rd. Indianapolis, IN 46217 Phone: 317-247-6808 Email: JFox@rhmarlin.com

Table 1: General Fleet Information					
Number of Pieces of Equipment	4				
Annual Hours Usage (Per Equipment)	719 hours				
Estimated Monthly Idle Hours	24 Hours per month per equipment				
Estimated Monthly Fuel Consumption	1163.4 Diesel Gallons Per Month				
Estimated Monthly Use (Hours)	240 Hours per equipment				
Equipment To Be Replaced	1997 Grove 750 (Tier 1, 190 HP) 2001Terex RT 555 (Tier 1, 174 HP) 2001 Grove 760E (Tier 1, 215 HP 2006 Caterpillar 330 (Tier 2, 345 HP)				
Proposed new Equipment	2021 Manitowoc IGO T-85 (Electric) 2021 Manitowoc IGO T-130 (Electric) 2021 Manitowoc MRH175 (Electric) 2020 John Deere 350G LC (Tier 4F, 271 HP)				
Estimated Years to Remain in Active Fleet	5-6 years				

Total Project Cost

Funding Requested:	\$704,642.10 (41%)
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Applicant Match: \$1,005,807.00 (59%)

Total Project Cost: **\$1,710,449.10**



Project Period

	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 electric and diesel replacement vehicles 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. R.H. Marlin will work with IDEM and Indiana Clean Diesel Coalition to promote clean diesel activities across Indiana.	Ongoing					
Task B (4)	Accept delivery of new electric cranes and clean diesel excavator and destroy the engines of current diesel equipment while documenting. Provide payment for new equipment.	4/01/22					
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					

Project Description

R.H. Marlin, Inc., (R.H. Marlin) is a family-owned construction contractor located in Indianapolis, IN who specializes in providing trained operators and equipment for Indiana's construction industry. Since its establishment by Robert Hugh Marlin in 1920, R.H. Marlin has earned a solid reputation for providing consistent, high quality service in building modern day Indiana. Robert Hugh Marlin, a Monroe County native, first got started excavating at Indiana University and other areas in Bloomington using a team of work horses and borrowed equipment. Marlin's success led him to expand the business to Indianapolis working on several city projects, including Eli Lilly. Marlin continued to grow his business which now included a Model-T truck and 32 teams of horses.

Due to the development and modernization of machinery, Marlin purchased an Osgood Dragline Crane and 125 dump trucks to work on the excavation of Camp Atterbury and coal mines located in Indiana and Kentucky. R.H. Marlin's crane contracting business began to take off in the 1950's after the investment in 12 cranes and training for the company's specialized crane operators. R.H. Marlin's cranes provided service for



building the Ford Motor Company's Indianapolis Plant and to the historic Indianapolis' Downtown City Circle. Today, R.H. Marlin is still a family owned and operated company and includes more than 75 full-time employees. R.H. Marlin's specialized services have continued to increase not only across central Indiana, but across the Midwest. The company is now recognized as one of the leading specialists in the crane contracting industry.

R.H. Marlin's specialized services are now primarily focused on providing construction contracting for the development of colleges, multi-unit dwellings, hotels and housing. The four pieces of equipment included in this project are three engine model-year 1996-2000 cranes and one 2005 engine model year excavator. R.H. Marlin seeks to replace its three current cranes, powered by EPA Tier-1 engines, with three new cranes powered by all-electric engines. R.H. Marlin also seeks to replace an aging excavator, powered by an EPA Tier-2 engine, with a new excavator powered by an EPA Tier-4 Final diesel engine. Through the implementation of three all-electric cranes and one Tier-4 Final powered excavator, R.H. Marlin will significantly reduce diesel fuel consumption and diesel emissions in Marion County and other project locations across central Indiana.

In support of Indiana's building construction industry, R.H. Marlin seeks to replace its diesel powered equipment with the cleanest all-electric and clean-diesel alternatives currently available. The choice to replace the company's three diesel cranes with three all-electric cranes is due to all-electric alternatives being environmentally efficient, while providing lower overall operating and maintenance costs. The three all-electric cranes will also increase jobsite safety due to the crane's near-silent operation allowing construction workers to communicate at the jobsite. The new all-electric cranes will be plugged in on-site through 480-volt, 60 Hz power supply. The all-electric cranes will reduce 100% of the diesel fuel consumption and engine idle hours associated with the current cranes.

R.H. Marlin proposes to replace its two aging, Tier-1 powered diesel cranes with a 2021 Manitowoc IGO T-130 and 2021 Manitowoc IGO T-85 all-electric cranes due to these machine's dynamic versatility and reduced operating costs. The two new 2021 Manitowoc's are self-erecting cranes that provide extended reach and lift capacity while operating from a small footprint. Suited for small construction sites, the two new versatile cranes are the most innovative to transport, erect, service and dismantle. While constructing buildings typically requires the use of multiple forklifts, telehandlers and off-road terrain cranes to transport equipment, each proposed all-electric Manitowoc self-erecting crane replacement will have the ability to complete all these tasks at each jobsite.

R.H. Marlin proposes to replace its aging, Tier-1 powered off-road diesel crane with a 2021 Manitowoc MRH 175 all-electric crane with hydraulic luffing jib technology. Luffing jib cranes have a very short counter jib and variable working radius, which permits high productivity in extremely narrow spaces. The Manitowoc MRH 175 has maximum capacity of 11 tons and is particularly straightforward to assemble and disassemble on



congested sites, making it an ideal choice for constructing Indianapolis' tall downtown buildings.

The choice to replace R.H. Marlin's excavator with a Tier-4 Final clean-diesel powered alternative is due to fueling availability at construction sites. The current excavator is used when clearing land and digging foundations for future houses or buildings. On-site electricity is not always available or accessible. The excavator also requires a lot of movement around the jobsite to reach all the areas in which it is working. For these reasons, a new clean-diesel excavator is the only available option to meet the needs of R.H. Marlin.

R.H. Marlin proposes to replace its 2006 Caterpillar C9 excavator with the new John Deere 350G LC FT4 excavator. The new John Deere 350G LC FT4 excavator is powered by John Deere's FT4 engine technology certified to EPA's Tier-4 Final emission standard. The engine technology employs cooled exhaust gas recirculation, easy to maintain exhaust filters and selective catalytic reduction. This new John Deere excavator will offer quicker cycle times and on-demand fuel-efficient power. This John Deere engine also incorporates an engine idle shutdown capability that helps reduce engine idling by automatically shutting the engine off when idling for more than 3 minutes. This start/stop function will reduce idling hours by up to 95%.

Crane Operation

Cranes have come to symbolize the building construction industry due to performing the essential service in moving heavy materials and components vertically. Construction crews utilize cranes to help lift steel, concrete, large tools and other construction materials into place. These pieces are generally much too heavy for construction workers to carry upstairs and across jobsites, therefore crews use cranes to safely transport these pieces into place.

Construction cranes used for the erection of a building or structures can help increase project efficiency, jobsite safety and drive greater productivity. Building construction cranes can help operators reduce project build time by allowing operators to reach over the entire building jobsite preventing the user from having to reposition a crane for each and every lift. The cranes extensive reach helps simplify jobsite operations as it can replace the use of other onsite construction equipment such as telehandlers and forklifts for moving and holding heavy sections in place. By having the ability to complete multiple tasks that would normally take an additional four or five pieces of construction equipment, the construction crane's functionality helps prevent jobsite injury and bolster productivity.

Air Quality for Marion County

The operation sites of these pieces' equipment are located in Marion County, which according to U.S. Census Bureau data has a population of 964,582. Marion County is a



designated U.S. EPA Air Quality Maintenance Area for Sulfur Dioxide and Particulate Matter 2.5 emissions.

U.S. Census Bureau data indicates 17.2 percent of Marion County residents live in poverty, compared to the 10.5 percent national average. The county also has more than double the national average of black or African-American residents, 29.1 percent compared to the national average of 13.4 percent.

At the same time, the city has more children under the age of 5, persons under the age of 18, residents under the age of 65 with a disability and residents under the age of 65 without health insurance than the national averages, 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 10.2 percent of Indiana adults have asthma compared to 7 percent at the national level.

The designation as U.S. EPA Air Quality Maintenance Areas coupled with high poverty levels in Marion County, higher-than-average adult asthma rates, sensitive populations and minority populations make Marion County an ideal location for this project.

In the figure 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 1.775 tons of nitrogen oxides will be removed from the air within the first year. As a result of this reduction, the negative health effects of exposure from nitrogen oxides for people with asthma, children and older adults will not be exposed to these harmful emissions. In consideration to the other emissions quantified, carbon monoxide and particulate matter emissions will be reduced by at least 97%. This clean diesel project will continue to reduce diesel emissions throughout the life of the equipment. The expected life of the three proposed cranes and one excavator is 25 years.

<u>Table 4: R.H. Marlin – Clean Crane Indiana Project</u> Estimated Annual Emissions Reductions Data was used utilizing the most current U.S. EPA Diesel Emission Quantifier						
<u>Annual Results</u> (short tons)	NOx	PM2.5	HC	со	CO ₂	Fuel
Baseline for Upgraded Vehicles	1.808	0.101	0.095	0.401	157.1	13,961
Amount Reduced After Upgrades	1.775	0.100	0.079	0.391	123.8	11,006
Percent Reduced After Upgrades	98.1%	98.8%	83.1%	97.7%	78.8%	78.8%
<u>Lifetime Results</u> (short tons)	NOx	PM _{2.5}	НС	со	CO2	Fuel



Baseline for Upgraded Vehicles	10.955	0.577	0.551	2.78	2 871.4	77,461
Amount Reduced After Upgrades	10.652	0.566	0.405	2.69	9 572.2	50,866
Percent Reduced After Upgrades	97.2%	98.2%	73.6%	97.0%	65.7%	65.7%
<u>Lifetime Cost Effectiveness</u> (\$/short ton reduced)	NOx	PM _{2.5}	н	с	со	CO ₂
Total Cost Effectiveness (includes all project costs)	\$160,580	\$3,020,98	88 \$4,21	8,325	\$633,701	\$2,989

This project represents a significant decrease in diesel emission reductions in just one year. Over the lifetime of the equipment, the citizens of not only Marion county will benefit from cleaner air, but the entire state of Indiana will benefit as well.

Project Success

The success of this project will be based upon continued diesel emission reduction operations, fuel savings and uptime from the new all-electric cranes and Tier-4 Final excavator. The construction of Hoosier homes and buildings are dependent on heavy-duty equipment across Indiana. R.H. Marlin continues to be leader in providing building construction solutions in Indiana, this project confirms this commitment to clean air. R.H. Marlin's desire for replacing its aging diesel equipment with new all-electric and Tier-4 Final powered equipment will serve to reduce diesel emissions in Indiana's construction industry for the foreseeable future.

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, R.H. Marlin 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.



SSCC will track idling and fuel consumption on the existing equipment to provide a point of comparison to evaluate the success of the project. The same data will be tracked on the new vehicle once it is deployed. Fuel cost savings, fuel usage, idling 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.

Furthermore this projects supports the efforts of the Indiana Clean Diesel Coalition. The Indiana Clean Diesel Coalition is an ambitious partnership between leaders from federal, state, and local government, the private sector, and environmental groups committed to reducing diesel emissions across Indiana which is led by IDEM and South Shore Clean Cities, Inc. The Indiana Clean Diesel Coalition is part of the U.S. EPA National Clean Diesel Campaign (www.epa.gov/cleandiesel).

SSCC will also work with IDEM/VW Advisory Committee and R.H. Marlin to implement the following aspects of this project though:

- 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.
- R.H. Marlin 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









Key Personnel Contact Information

Contact	Organization/Title	Phone	Email
Joe Fox	R.H. Marlin, President	317-786-4356	jfox@rhmarlin.com
Ryan Lisek	South Shore Clean Cities/Project Manager	219-644-3690	rlisek@southshorecleancities.org

Evaluation Criteria

This project aims to address diesel emissions that are centered in Indianapolis and across the central part of the state of Indiana. This project encompasses nonroad vehicles that are necessary to supporting Hoosier's housing and support economic development. In particular, the construction industry's operations are primarily comprised of heavy-duty, diesel powered vehicles and equipment. These building construction sites are in direct proximity to homes, daycare facilities, schools, and other sensitive populations. The goal to reduce diesel emissions, specifically nitrogen oxides, from an industry that is relied upon the use of heavy-duty diesel equipment. Throught this project, all-electric cranes will be replacing pre Tier-4 diesel equipment.

This project serves to reduce a significant amount of identified diesel emissions and toxic air pollutants identified within the 2020 DieselWise Indiana – DERA with Volkswagen DERA Option RFP. This is due to three of the new replacement vehicles being powered by all-electric engines while the final piece of equipment is powered by a Tier-4 Final diesel engine. This project will be seamlessly implemented into current fleet operations and will continue to operate through the entirety of the 25-year life of the equipment.

Itemized Budget

Description	Project Cost	DieselWise Funds (45% Cost Share)	Applicant Share (55% Cost Share)
2021 Manitowoc IGO T 85A All-Electric	\$352,012.00	\$158,405.40	\$193,606.60
2021 Manitowoc T 130 All -Electric	\$469,048.00	\$211,071.60	\$257,976.40
2021 Manitowoc MRH 175 All-Electric	\$564,089.10	\$253,840.10	\$310,249.00
Totals	\$1,385,149.10	\$623,317.10	\$761,832.00

Description	Project Cost	DieselWise Funds (25% Cost Share)	Applicant Share (75% Cost Share)
2020 John Deere 350G LC Tier-4 Final	\$325,300.00	\$81,325.00	\$243,975.00
Totals	\$325,300.00	\$81,325.00	\$243,975.00



Combined Project Cost:	\$1,710,449.10
Combined DieselWise Funds:	\$704,642.10
Combined Applicant Cost-Share:	\$1,005,807.00

Appendices

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



November 18, 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 R.H. Marlin, Inc., 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.

R.H. Marlin, Inc., 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. R.H. Marlin, Inc., 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 Joe Fox at 317-786-4356.

Sincerely,

Joe Fox

Vice President