




air pollution control district
SANTA BARBARA COUNTY

Agenda Date: March 19, 2020
Agenda Placement: Admin
Estimated Time: N/A
Continued Item: No

Board Agenda Item

TO: Air Pollution Control District Board

FROM: Aeron Arlin Genet, Air Pollution Control Officer 

CONTACT: Lorena Saldana, Executive Assistant/Board Clerk, (805) 961-8853

SUBJECT: District Grant Program Activity

RECOMMENDATION:

Receive and file the following:

1. An update on the Old Car Buy Back Program for vehicles retired during the period of December 1, 2019 through December 31, 2019; and
2. An update on the Woodsmoke Reduction Program for fireplace and stove replacement projects during the period of December 12, 2019 through March 1, 2020; and
3. Summary of the emission-reduction grant agreements approved by the Air Pollution Control Officer for the period of November 26, 2019 through February 29, 2020 in accordance with Board Resolution Number 09-14.

DISCUSSION:

Your Board expanded the authority of the Control Officer to issue grants for emission reduction projects up to \$150,000 provided your Board had authorized an overall umbrella program for each type of project. The attached summary sheets describe the grants approved since our last report. In addition, updated grant fund allocation reports by city for the District's Old Car Buy Back Program as well as the Woodsmoke Reduction Program are being provided.

ATTACHMENTS:

- A. Old Car Buy Back Program Update
- B. Woodsmoke Reduction Program Update
- C. Grant Agreement Approval Forms

Aeron Arlin Genet, Air Pollution Control Officer

805.961.8800 | 260 N. San Antonio Rd., Ste. A | Santa Barbara, CA 93110 | ourair.org | @OurAirSBC

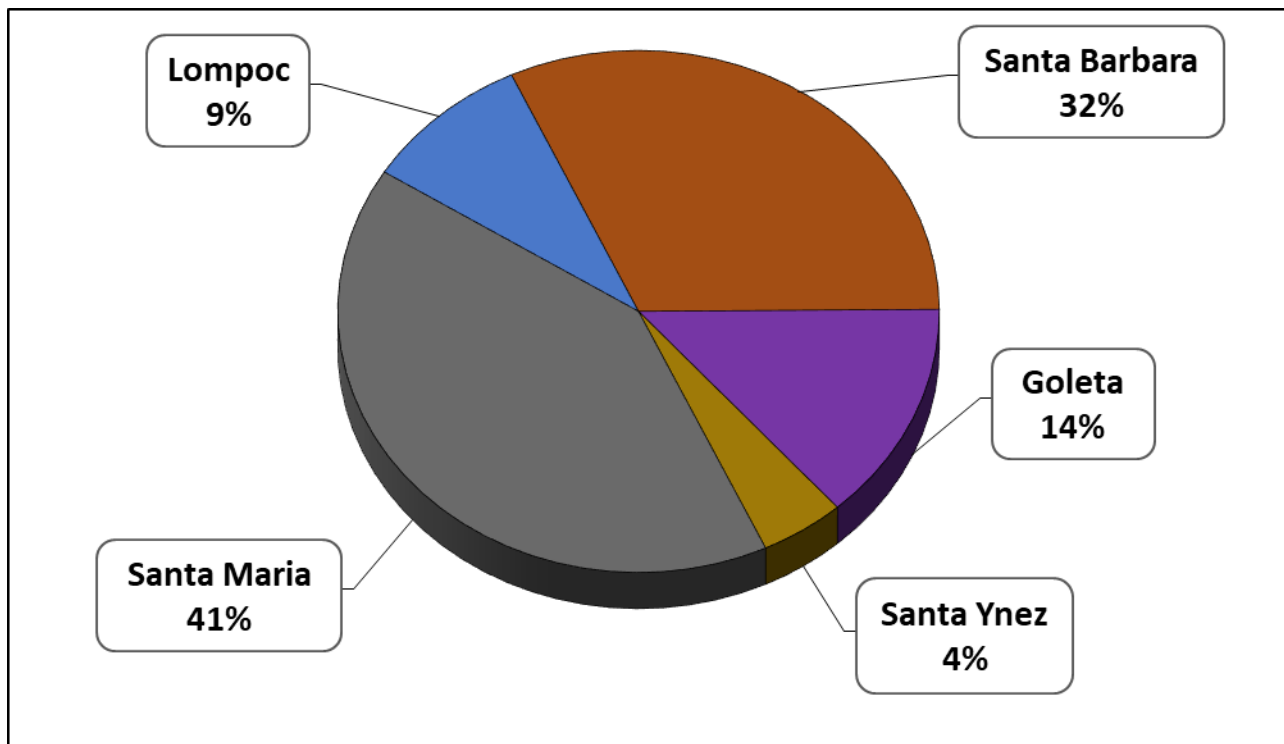
OLD CAR BUY BACK PROGRAM UPDATE

The District's Old Car Buy Back Program currently pays Santa Barbara County vehicle owners \$1,000 to voluntarily retire their fully legal and operational 1995 or older, light or medium duty car, truck, van, or SUV. The three regional dismantlers earned \$250 for each vehicle that they helped retire. Currently, the total program cost is \$1,250 to retire a vehicle.

The program accelerates the improvement of air quality by removing high polluting vehicles from the road, quicker than normal vehicle attrition. Funding for the program is derived from \$2 DMV registration surcharge funds and the program has expended \$159,000 in Fiscal Year 2019-20.

VEHICLES RETIRED: DECEMBER 1, 2019 THROUGH DECEMBER 31, 2019	22
\$ COMMITTED: [22 VEHICLES @ \$1,250/VEHICLE]	\$27,500
TOTAL PROJECT TONS REDUCED [NOx + ROC + PM]:	1.79
AVERAGE PROJECT COST-EFFECTIVENESS	\$14,962/ton

VEHICLE OWNER LOCATION *



*For vehicles retired from December 1, 2019 – December 31, 2019.



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SANTA BARBARA COUNTY



Woodsmoke Reduction Program Update

This voluntary program is designed to help households replace a wood-burning uncertified stove, fireplace insert, or fireplace used as a primary source of heat with a cleaner-burning and more efficient device.

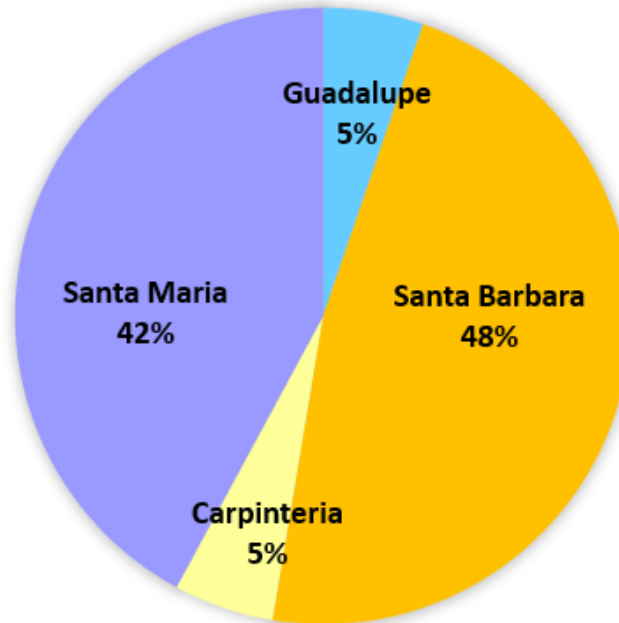
Applicants who meet low-income eligibility requirements may qualify for an Enhanced Incentive Voucher of up to \$5,000. All other Applicants may qualify for the Standard Voucher of up to \$1,000. Program funds come from California Climate Investments, a statewide initiative that puts Cap-and-Trade dollars to work.

The program improves air quality and mitigates neighborhood impacts by reducing the amount of woodsmoke emitted from fireplaces and wood stoves in the county, which accounts for about 33 percent of wintertime particulate matter (PM_{2.5} and PM₁₀) emissions. In addition to particulate matter, woodsmoke contains soot, dioxins, carbon dioxide, and volatile organic compounds. Breathing woodsmoke can reduce lung function, aggravate heart and lung diseases, and trigger asthma. The program also achieves reductions in black carbon, a short-lived climate pollutant emitted when wood burns.

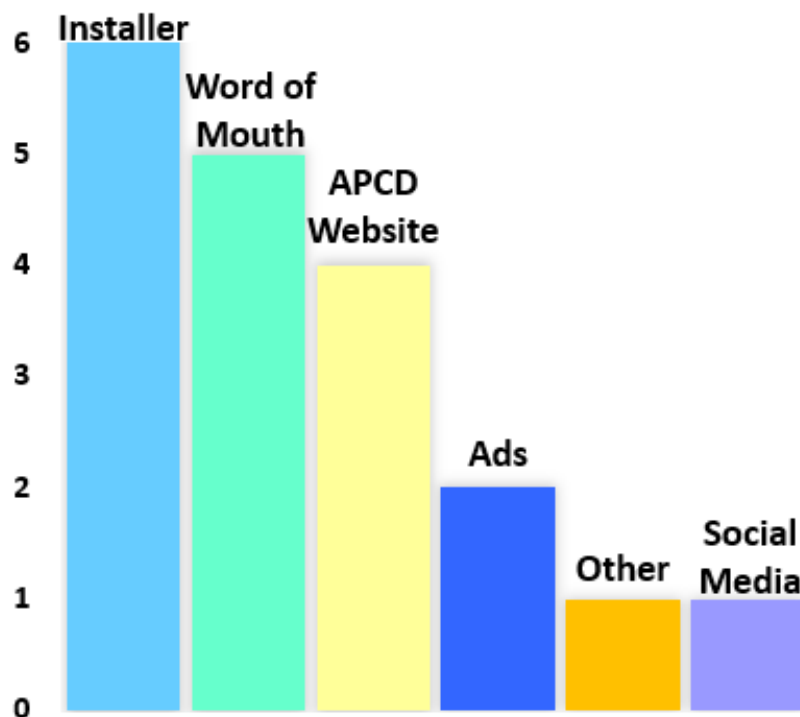
Year 1 Fireplace and Stove Replacements (Final Report for Year 1)						
Household Type	Vouchers Issued	Projects Completed		\$ Expended	PM _{2.5} Reduced (lbs)	Ozone Precursors Reduced (NO _x and ROC, lbs)
		Wood Fireplace to Gas Insert	Wood Stove to Gas Stove			
Low Income	50	42	1	\$211,978	83,516	157,318
Other	17	11	1	\$13,000	22,119	42,092
Total	67	53	2	\$224,978	105,635	199,410
Year 1 Program Budget				\$225,000		
Year 1 Program Balance				\$22		
Cost Effectiveness (\$/ton PM _{2.5})				\$4,260		
Cost Effectiveness (\$/ton NO _x and ROC)				\$2,257		

Year 2 Fireplace and Stove Replacements (December 12 th 2019 – March 1 st 2020)						
Household Type	Vouchers Issued	Projects Completed		\$ Expended	PM _{2.5} Reduced (lbs)	Ozone Precursors Reduced (NO _x and ROC, lbs)
		Wood Fireplace to Gas Insert	Wood Stove to Gas Stove			
Low Income	19	5	0	\$25,000	9,903	18,585
Other	0	0	0	\$0	0	0
Total	19	5	0	\$25,000	9,903	18,585
Year 2 Program Budget				\$90,756		
Year 2 Program Balance				\$65,756		
Cost Effectiveness (\$/ton PM _{2.5})				\$5,049		
Cost Effectiveness (\$/ton NO _x and ROC)				\$2,690		

Project Location (Year 2 Vouchers)



How Applicants Learned of Program (Year 2)



ATTACHMENT C

Grant Agreement Approval Forms for the Period of
November 26, 2019 – February 29, 2020

March 19, 2020

Santa Barbara County Air Pollution Control District
Board of Directors

260 San Antonio Road, Suite A
Santa Barbara, California 93110

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 12/17/19
Grant Program: Community Air Protection Program – Year 2 funds
Category: Off-Road

GRANT INFORMATION

Grantee: Durant Harvesting (AP192004)
Project Location: Santa Maria Valley
Grant Agreement Amount: \$150,000
Old Equipment: 2010 Caterpillar Agricultural Tractor 330hp (Tier 3)
New Equipment: 2019 John Deere Agricultural Tractor 270hp (Tier 4F)
Grant Cost-Effectiveness: \$19,887
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 7.698 tons (2.566 tons/yr)

FUND INFORMATION

Community Air Protection Program – Year 2 Budget: \$1,060,100
Encumbered Grant Agreements: \$316,664 (Including current grant)
Community Air Protection Program – Year 2 Balance: \$743,436

Approved: _____

Air Pollution Control Officer

Date: 17 Dec 19

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Alex Economou
Date: December 9, 2019
Grant Program: School Bus: Community Air Protection Program – Year 2 funds

GRANT INFORMATION

Grantee: Orcutt Union School District
Grant Agreement Number: AP192005
Grant Agreement Amount: \$130,000
Existing Equipment: 1999 Thomas MVP diesel school bus
New Equipment: 2019 IC RE3911 diesel school bus
Grant Cost-Effectiveness: \$255,942/ton NO_x+ROC+PM₁₀
Cost-Effectiveness Limit: \$276,230/ton NO_x+ROC+PM₁₀
Overall Program Cost-Effectiveness: \$255,942/ton NO_x+ROC+PM₁₀ (Including current grant)
Project Life: 4 Years
Project Lifetime Emission Reductions: 0.52 tons NO_x+ROC+PM₁₀

FUND INFORMATION

Community Air Protection Program – Year 2 Budget: \$1,060,100
Encumbered Grant Agreements: \$166,664 (Including current grant)
Community Air Protection Program – Year 2 Balance: \$893,436

Approved: _____

Air Pollution Control Officer

Date: _____

17 Dec 19

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 01/08/2020
Grant Program: Carl Moyer – Year 21, Year 21 State Reserve, Year 20
Category: Off-Road

GRANT INFORMATION

Grantee: Innovative Produce (AP192006)
Project Location: Santa Maria Valley
Grant Agreement Amount: \$89,000
Old Equipment: 1995 John Deere Agricultural Tractor 111hp (Tier 0)
New Equipment: 2019 John Deere Agricultural Tractor 130hp (Tier 4F)
Grant Cost-Effectiveness: \$20,490
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 4.404 tons (1.468 tons/yr)

FUND INFORMATION

Carl Moyer Year 21 Budget: \$536,651.00
Encumbered Grant Agreements: \$28,720.69 (Including current grant)
Carl Moyer Year 21 Balance: \$534,930.31

Carl Moyer Year 21 State Reserve Budget: \$49,920.30
Encumbered Grant Agreement: \$49,920.30 (Including current grant)
Carl Moyer Year 21 State Reserve Balance: \$0

Carl Moyer Year 20 Budget: \$491,397.00
Encumbered Grant Agreement: \$491,397.00 (Including current grant)
Carl Moyer Year 20 Balance: \$0

Approved: 
Air Pollution Control Officer

Date: 10 Jan 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 01/08/2020
Grant Program: FARMER – Year 2 funds
Category: Off-Road

GRANT INFORMATION

Grantee: Acquistapace Farms (AP192007)
Project Location: Santa Maria Valley
Grant Agreement Amount: \$150,000
Old Equipment: 1990 John Deere Agricultural Tractor 252hp (Tier 0)
New Equipment: 2019 John Deere Agricultural Tractor 270hp (Tier 4F)
Grant Cost-Effectiveness: \$7,514
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 20.415 tons (6.805 tons/yr)

FUND INFORMATION

FARMER – Year 2 Budget: \$563,560.37
Encumbered Grant Agreements: \$191,462 (Including current grant)
FARMER – Year 2 Balance: \$372,098.37

Approved: _____

Air Pollution Control Officer

Date: _____

10 Jan 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 01/17/2020
Grant Program: Carl Moyer – Year 21
Category: Off-Road

GRANT INFORMATION

Grantee: Paco Varela Farming (AP192011)
Project Location: Santa Maria Valley
Grant Agreement Amount: \$34,000
Old Equipment: 1985 Ford Agricultural Tractor 60hp (Tier 0)
New Equipment: 2019 Kubota Agricultural Tractor 92hp (Tier 4F)
Grant Cost-Effectiveness: \$12,765
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 2.733 tons (0.911 tons/yr)

FUND INFORMATION

Carl Moyer Year 21 Budget: \$563,651.00
Encumbered Grant Agreements: \$62,720.69 (Including current grant)
Carl Moyer Year 21 Balance: \$500,930.31

Approved: _____

Air Pollution Control Officer

Date: 21 Jan 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 01/17/2020
Grant Program: Carl Moyer – Year 21
Category: Off-Road (Construction)

GRANT INFORMATION

Grantee: V. Lopez Jr. & Sons (AP192012)
Project Location: Santa Maria Valley
Grant Agreement Amount: \$53,000
Old Equipment: 2011 John Deere backhoe/loader 84hp (Tier 2)
New Equipment: 2019 Case backhoe/loader 90hp (Tier 4F)
Grant Cost-Effectiveness: \$29,673
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 1.766 tons (0.592 tons/yr)

FUND INFORMATION

Carl Moyer Year 21 Budget: \$563,651.00
Encumbered Grant Agreements: \$115,720.69 (Including current grant)
Carl Moyer Year 21 Balance: \$447,930.31

Approved: _____

Air Pollution Control Officer

Date: _____

21 Jan 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 01/17/2020
Grant Program: Carl Moyer – Year 21
Category: Off-Road (Agricultural Pump)

GRANT INFORMATION

Grantee: Feliciano Foxen Canyon (AP192014)
Project Location: Los Olivos
Grant Agreement Amount: \$56,000
Old Equipment: 2013 Caterpillar diesel agricultural pump 200hp (Tier 4i)
New Equipment: 2019 VHS electrical agricultural pump
Grant Cost-Effectiveness: \$22,896
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 2.052 tons (0.684 tons/yr)

FUND INFORMATION

Carl Moyer Year 21 Budget: \$563,651.00
Encumbered Grant Agreements: \$171,720.69 (Including current grant)
Carl Moyer Year 21 Balance: \$391,930.31

Approved: _____

Air Pollution Control Officer

Date: _____

21 Jan 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 01/17/2020
Grant Program: FARMER – Year 2 funds
Category: Off-Road

GRANT INFORMATION

Grantee: Rancho Guadalupe (AP192015)
Project Location: Santa Maria Valley
Grant Agreement Amount: \$150,000
Old Equipment: 1997 John Deere Agricultural Tractor 145hp (Tier 1)
New Equipment: 2019 John Deere Agricultural Tractor 175hp (Tier 4F)
Grant Cost-Effectiveness: \$27,673
Cost-Effectiveness Limit: \$30,000
Project Life: 4 Years
Project Lifetime Emission Reductions: 5.508 tons (1.377 tons/yr)

FUND INFORMATION

FARMER – Year 2 Budget: \$563,560.37
Encumbered Grant Agreements: \$341,462 (Including current grant)
FARMER – Year 2 Balance: \$222,098.37

Approved: _____

Air Pollution Control Officer

Date: _____

21 Jan 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 01/24/2020
Grant Program: Carl Moyer – Year 21
Category: Off-Road (Rough Terrain Forklift)

GRANT INFORMATION

Grantee: Eat Sweet Farms (AP192013)
Project Location: Santa Maria Valley
Grant Agreement Amount: \$65,000
Old Equipment: 2006 Manitou rough terrain forklift 82.5hp (Tier 2)
New Equipment: 2019 Harlo rough terrain forklift 74hp (Tier 4F)
Grant Cost-Effectiveness: \$26,531
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 2.496 tons (0.832 tons/yr)

FUND INFORMATION

Carl Moyer Year 21 Budget: \$563,651.00
Encumbered Grant Agreements: \$236,720.69 (Including current grant)
Carl Moyer Year 21 Balance: \$326,930.31

Approved: _____

Air Pollution Control Officer

Date: 27 Jan 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 01/24/2020
Grant Program: Community Air Protection Program – Year 2 funds
Category: Off-Road

GRANT INFORMATION

Grantee: H&R Souza (AP192016)
Project Location: Santa Maria Valley
Grant Agreement Amount: \$150,000
Old Equipment: 1992 John Deere Agricultural Tractor 220hp (Tier 0)
New Equipment: 2019 John Deere Agricultural Tractor 270hp (Tier 4F)
Grant Cost-Effectiveness: \$24,885
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 6.177 tons (2.059 tons/yr)

FUND INFORMATION

Community Air Protection Program – Year 2 Budget: \$1,060,100
Encumbered Grant Agreements: \$466,664 (Including current grant)
Community Air Protection Program – Year 2 Balance: \$593,436

Approved: _____

Air Pollution Control Officer

Date: 27 Jan 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 01/24/2020
Grant Program: FARMER – Year 2 funds
Category: Off-Road

GRANT INFORMATION

Grantee: Cuyama Valley Pistachio (AP192018)
Project Location: Cuyama Valley
Grant Agreement Amount: \$52,000
Old Equipment: 1991 Agco Allis Agricultural Tractor 95hp (Tier 0)
New Equipment: 2019 New Holland Agricultural Tractor 117hp (Tier 4F)
Grant Cost-Effectiveness: \$28,125
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 1.952 tons (0.244 tons/yr)

FUND INFORMATION

FARMER – Year 2 Budget: \$563,560.37
Encumbered Grant Agreements: \$393,462 (Including current grant)
FARMER – Year 2 Balance: \$170,098.37

Approved: _____

Air Pollution Control Officer

Date: 27 Jan 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Emily Waddington
Date: 02/05/2020
Grant Program: Carl Moyer Year 21
Category: On-Road

GRANT INFORMATION

Grantee: Santa Maria Valley Crop Service (AP192009)
Project Location: Santa Maria
Grant Agreement Amount: \$15,919
Old Equipment: 1995 International Model 4900 Heavy-duty Diesel Truck
New Equipment: 2020 Hino Model 338 Heavy-duty Diesel Truck
Grant Cost-Effectiveness: \$29,979
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 0.531 tons (0.177 tons/yr)

FUND INFORMATION

Carly Moyer Year 21 Budget: \$563,651
Encumbered Grant Agreements: \$252,637 (Including current grant)
Carly Moyer Year 21 Balance: \$311,011

Approved: _____

Air Pollution Control Officer

Date: 5 Feb 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 02/20/20
Grant Program: FARMER – Year 2 funds
Category: Off-Road

GRANT INFORMATION

Grantee: Boavista Farms (AP192019)
Project Location: Santa Maria Valley
Grant Agreement Amount: \$150,000
Old Equipment: 1995 Caterpillar Agricultural Tractor 325hp (Tier 0)
New Equipment: 2019 New Holland Agricultural Tractor 311hp (Tier 4F)
Grant Cost-Effectiveness: \$6,532
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 23.421 tons (7.807 tons/yr)

FUND INFORMATION

FARMER – Year 2 Budget: \$563,560.37
Encumbered Grant Agreements: \$543,462 (Including current grant)
FARMER – Year 2 Balance: \$20,098.37

Approved: _____

Air Pollution Control Officer

Date: 24 Feb 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 02/26/20
Grant Program: FARMER – Year 2 funds
Category: Off-Road

GRANT INFORMATION

Grantee: Rancho Harvest (AP192020)
Project Location: Santa Maria Valley
Grant Agreement Amount: \$20,098.37
Old Equipment: 1994 John Deere Agricultural Tractor 94hp (Tier 0)
New Equipment: 2019 John Deere Agricultural Tractor 110hp (Tier 4F)
Grant Cost-Effectiveness: \$6,511
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 3.189 tons (1.063 tons/yr)

FUND INFORMATION

FARMER – Year 2 Budget: \$563,560.37
Encumbered Grant Agreements: \$563,560.37 (Including current grant)
FARMER – Year 2 Balance: \$0

Approved: _____

Air Pollution Control Officer

Date: 26 Feb 2020

Please contact the Board Clerk to review this grant agreement