NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT

Headquarters 200 Litton Drive, Ste. 320 Grass Valley, CA 95945 (530) 274-9360/ FAX: (530) 274-7546 Gretchen G. Bennitt, APCO
Northern Field Office
257 E. Sierra Street, Suite E
Portola, CA 96122
(530)832-0102 FAX:(530) 832-0101

NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT BOARD OF DIRECTORS REGULAR BOARD MEETING MONDAY

September 23, 2019 1:00 p.m.

NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT BOARD OF DIRECTORS REGULAR MEETING

September 23, 2019

1:00 p.m.

This meeting will be held by Video/Telephone Conference at the following locations:

(Site A) VIDEOCONFERENCE/TELEPHONE CONFERENCE

Northern Sierra Air Quality Management District (Headquarters)

200 Litton Drive, Conference Room 316

Grass Valley, California

(Site B) VIDEOCONFERENCE/TELEPHONE CONFERENCE Northern Sierra Air Quality Management District (Northern Office)

257 E. Sierra Street, Unit E

Portola, California

All items on the agenda may be acted upon by the Board of Directors. No action will be taken nor discussion held at the meeting on business not appearing on the posted agenda.

I. Standing Orders:

Call to Order.

Roll call and determination of quorum.

- **II. Public Comment:** For items **NOT** appearing on the agenda and within the jurisdiction of the Board. The public may comment on Agenda items as they are discussed.
- III. Consent Calendar These Items Are Expected to Be Routine and Noncontroversial. They Will Be Acted on By the Board at One Time Without Discussion. Any Board Member, Staff Member, or Interested Party May Request That an Item Be Removed From the Consent Calendar for Discussion.
 - A. Approval of regular meeting minutes August 26, 2019 Page 5
- IV. Administrative Report
 - A. Discussion and Adoption of the AB2766 DMV Surcharge Proposals for 2019/2020 Page 9
- V. Director's Report
 - A. Status on Portola PM2.5 Nonattainment Area Page 164
 - B. Green Waste Disposal Page 165

- VI. Concerns of Board The Board may at this time bring up matters it wishes to discuss at the next Board Meeting, as long as no discussions are conducted and no actions are taken, in compliance with the Brown Act.
- VII. Schedule next Meeting October 28, 2019
- VIII. Adjournment

PERSONS DESIRING TO ADDRESS THE BOARD

Meetings of the Board of Directors shall be conducted by the Chairperson in a manner consistent with the policies of the District. The latest edition of Robert's Rules of Order, Revised shall also be used as a general guideline for meeting protocol. District policies shall prevail whenever they are in conflict with Robert's Rules of Order, Revised.

All Board meetings shall commence at the time stated on the agenda and shall be guided by same.

PUBLIC COMMENT:

Provisions for permitting any individual or group to address the Board concerning any item on the agenda of a special meeting, or to address the Board at a regular meeting on any subject that lies within the jurisdiction of the Board of Directors, shall be as follows:

Three (3) minutes may be allotted to each speaker and a maximum of fifteen (15) minutes to each subject matter;

No boisterous conduct shall be permitted at any Board meeting. Persistence in boisterous conduct shall be grounds for summary termination, by the Chairperson, of that person's privilege of address.

No oral presentation shall include charges or complaints against any District employee, regardless of whether or not the employee is identified in the presentation by name or by another reference which tends to identify. All charges or complaints against employees shall be submitted to the Board of Directors under provisions contained in District Policy 1030.

Willful disruption of any of the meetings of the Board of Directors shall not be permitted. If the Chairperson finds that there is in fact willful disruption of any meeting of the Board, he/she may order the room cleared and subsequently conduct the Board's business without the audience present. In such an event, only matters appearing on the agenda may be considered in such a session.

After clearing the room, the Chairperson may permit those persons who, in his/her opinion, were not responsible for the willful disruption to re-enter the meeting room.

Duly accredited representatives of the news media, whom the Chairperson finds not to have participated in the disruption, shall be admitted to the remainder of the meeting.

Members of the public are given the opportunity to address the Board of Directors directly at each teleconference location.

POSTING AGENDA:

This agenda was posted at least 72 hours prior to the regular meeting at the following locations: Eric Rood Government Center in Nevada City, The Plumas County Courthouse in Quincy, the Litton Building in Grass Valley, the Plumas County Board of Supervisors Chambers in Quincy, Sierra County Courthouse Square in Downieville. The agenda and board packet are available on-line prior to the Board Meeting at www.myairdistrict.com

To:

Northern Sierra Air Quality Management District Board of Directors

From:

Gretchen Bennitt, Air Pollution Control Officer

Date:

September 23, 2019

Agenda Item: III.A

Agenda Description: Approval of regular meeting minutes - August 26, 2019

Requested Action: The minutes are attached for Board comment/approval

ROLL CALL VOTE REQUESTED

Attachments:

1. August 26, 2019 Minutes

DISTRICT HEADQUARTERS 200 Lillon Drive, Suite 320 Mailing Address: Grass Valley, CA 95945 (530) 274-9360 / FAX: (530) 274-7546

email: office@myairdistrict.com or www.myairdistrict.com

NORTHERN FIELD OFFICE 257 E. Sierra, Unil E Malling Address: P.O. Box 2227 Portola, CA 96122 (530) 832-0102 / FAX: (530) 832-0101

email: Julie@myairdistrict.com or www.myairdistrict.com

MINUTES

NORTHERN SIERRA AIR QUALITY MANAGEMENT DISTRICT **BOARD OF DIRECTORS REGULAR MEETING**

August 26, 2019

1:00 p.m.

IN PERSON MEETING Northern Sierra Air Quality Management District (Northern Office)

257 E. Sierra Street, Unit E

Portola, California

Members Present: Supervisor Scofield, Chair Supervisor Anderson, Vice Chair **Supervisor Roen Supervisor Huebner Supervisor Simpson**

Members Absent: None

I. Standing Orders:

Supervisor Thrall

Call to Order. Roll Call and Determination of Quorum.

Chair Scofield called the meeting to order at 1:01 P.M. A quorum was confirmed. Gretchen Bennitt, APCO; Julie Ruiz, APCSII, Melissa Klundby, APCSI, David Nicholas. APCSI were also in attendance.

Public Comment: For Items NOT Appearing on the Agenda and Within the H. Jurisdiction of the Board. The Public May Comment on Agenda Items As They Are Discussed. Both Teleconference Sites are Allowed an Opportunity for Public Comment.

Chair Scofield called for public comment, there were no public present.

- III. Consent Calendar These Items Are Expected to Be Routine and Noncontroversial. They Will Be Acted on By the Board at One Time Without Discussion. Any Board Member, Staff Member, or Interested Party May Request That an Item Be Removed From the Consent Calendar for Discussion.
- Approval of regular meeting minutes June 24, 2019 Α.

There was a motion by Supervisor Anderson to approve the consent calendar. Supervisor Roen seconded the motion. The motion was approved.

IV. Administrative Report

A. FY 2018-2019 End of Year Report and Proposed Final Budget Amendments to FY 2018-2019

There was a motion by Supervisor Thrall to approve the District's FY 18-19 End of Year Report and the final budget amendments. Supervisor Roen seconded the motion. The motion was approved unanimously.

B. Approval of the Term Renewal of Variance Hearing Board Member Greg Margason There was a motion by Supervisor Anderson to approve the renewal of term for Greg Margason from August 26, 2019 to August 26, 2022. Supervisor Roen seconded the motion. The motion was approved unanimously.

V. Director's Report

A. Status on Portola PM2.5 Nonattainment Area

Ms. Ruiz shared the latest woodstove replacements with the Board.

Ms. Bennitt discussed that the modification to the Portola Woodstove Ordinance was adopted by the City Council.

B. California Air Resources Board's Truck and Bus Regulation

Mr. Nicholas presented a powerpoint presentation to the Board the impacts of the California Air Resources Board's Truck and Bus Regulation on the Air District. The Board requested that the District research the individual trucks impacted by the regulation on the individual counties. Additionally, the Board requested contact information to request someone from CARB give presentations at each respective county.

C. FY 19 Targeted Airshed Grant Program Eligible Federal Nonattainment Areas – Western Nevada County and Portola

Ms. Bennitt discussed that Northern Sierra Air District has the distinction of TWO federal nonattainment areas that are eligible for an EPA Targeted Airshed Grant – both the Portola Federal PM2.5 Nonattainment Area (for the 4th year in a rowl) and western Nevada County's Federal Ozone Nonattainment Area (first year). They are eligible since they are considered to be in the top five worst areas in the nation for their respective Air Quality Standards.

Ms. Bennitt reported that she has contacted the California Air Resources Board (CARB) and the local Nevada County Transportation Commission to submit a proposal for funding projects that will reduce vehicle emissions in western Nevada County.

The Board requested that Ms. Bennitt request that CARB assist in pursuing a grant for the Portola Nonattainment Area that will provide an alternative to the burning of green waste. Ms. Bennitt discussed that the District did pursue a grant in 2016 which would fund the purchase of a large scale yard waste grinder, but the grant did not succeed. The Board requested that she pursue a similar grant, since conditions have changed since 2016, specifically a new ordinance was adopted by the City of Portola to prohibit the open burning of green waste.

VI. Concerns of the Board

There were no concerns from the Board.

VII. Schedule next Meeting – Next meeting was scheduled for September 23, 2019 via video/telephone conference.

VIII. Adjournment

The meeting was adjourned at 2:15 P.M.

To:

Northern Sierra Air Quality Management District Board of Directors

From:

Gretchen Bennitt, Air Pollution Control Officer

Date:

September 23, 2019

Agenda Item: IV.A

Agenda Description: Discussion and Adoption of the AB2766 DMV Surcharge

Proposals for 2019/2020

Issues:

The District received the project proposals presented in the attachments. Project proponents were requested to attend today's meeting to respond to any questions from the Board.

Per the Request for Proposal adopted by the Board during the April 22, 2019 meeting, the following sunset criteria applies:

SUNSETTING

The sunsetting criteria is designed to generate new, innovative proposals and discourage participant from considering AB2766 funds as a perpetual funding source for operating expenses. Projects that have received funding for **three years or more** fall under the sunsetting category. These projects are only eligible for funds that remain after the District Governing Board approves non-sunsetting projects. Projects that were subjected to the sunsetting requirements the previous funding year may participant the following year as a regular project and will be evaluated as if it were a new project. Basically, the clock is reset and these projects have another three years before falling under the sunsetting category.

Requested Action:

1. Listen to presentation from grantees, consider approval of proposals

ROLL CALL VOTE REQUESTED

Attachments:

- 1. Ranking and Discussion of FY 2019-2020 AB2766 Projects
- 2. Spreadsheet AB2766 Available Funds 2019-2020 Cycle
- 3. Individual Project Proposals

FY 2019-2020 AB 2766 Ranking and Discussion of Projects

District staff has evaluated all of the submitted projects.

- There is one applicant for the \$5,672 funds available for projects in Sierra County.
- There are nine applicants for the \$185,332 funds available for projects in Nevada County.
- There are two applicants for the \$70,683 funds available for projects in Plumas County.

All Projects listed below are ranked from high to low, based on scoring criteria outlined in the FY 2019-2020 Request for Proposals (RFP).

1. Applicant: Hansen Bros. Enterprise

Page 14

County: Nevada

Total AB 2766 Funding Request: \$26,000.00

Co-Funding: \$119,444.00

Cost Effectiveness: \$10.50 per pound

Brief Summary: Purchase of a new 2020 class 8 HHD truck to replace a 2003 class 8

truck.

2. Applicant: Sierra Commons

Page 26

County: Nevada

Total AB 2766 Funding Request: \$24,000.00

Co-Funding: \$16,555.00

Cost Effectiveness: \$19.53 per pound

Brief Summary: Funding for a telecommuting center with video conferencing and voice communication workstations for prospective telecommuting clients to utilize the center to

negotiate remote working arrangements, tools and resources.

3. Applicant: Tahoe Truckee Unified School District

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County: Nevada

Total AB 2766 Funding Request: \$165,000.00

Co-Funding: \$24,090.78

Cost Effectiveness: \$5.09 per pound

Brief Summary: Replace a 1999 diesel school bus with a new bus that utilizes a NOx and

PM emission control system.

4. Applicant: McGarr Excavation, Inc.

Page 58

County: Plumas

Total AB 2766 Funding Request: \$70,000

Co-Funding: \$65,000

Cost Effectiveness: \$17.57 per pound

Brief Summary: Replace a 1998 Heavy Duty Class 8 truck with a new Peterbuilt 367 Truck that utilizes current clean emission standards; and removing of the existing dump box on the 1998 truck and installation on the new truck.

5. Applicant: Nevada County Health and Human Services Agency

County: Nevada

Total AB 2766 Funding Request: \$21,196.00

Page 68

Co-Funding: \$8,804.00

Cost Effectiveness: \$36.79 per pound

Brief Summary: Upgrade the current County video conferencing equipment.

6. Applicant: Tahoe Truckee Unified School District

County: Nevada

Page 80

Total AB 2766 Funding Request: \$120,000.00

Co-Funding:\$25,770.90

Cost Effectiveness: \$10.22 per pound

Brief Summary: Replace a 1993 diesel special needs school bus with a new 2019 bus that

utilizes a NOx and PM emission control technology.

7. Applicant: Incorporated Senior Citizens of Sierra County

County: Sierra

Page 98

Total AB 2766 Funding Request: \$5,672.00

Co-Funding: \$54,000.00

Cost Effectiveness: \$30.93 per pound

Brief Summary: Support for continued operations of the senior van pool services program which provides group transit services for disabled and/or senior residents of Sierra County. The Incorporated Senior Citizens of Sierra County have been awarded this grant for the last three years, so the sunsetting criteria have been met.

8. Applicant: Sierra Commons

County: Nevada

Page 110

Total AB 2766 Funding Request: \$26,000.00

Co-Funding: \$9,240.00 Cost Effectiveness: \$57.35

Brief Summary: Funding for a full featured telecommuting response center that will feature a natural gas powered generator to give local small business the tools and resources needed to continue work and connectivity during intentional and unexpected power and internet outages.

9. Applicant: Plumas County Department of Public Works

Page 122

County: Plumas

Total AB 2766 Funding Request: \$3,622.55

Co-Funding: \$37,285.65

Cost Effectiveness: \$99.99 per pound

Brief Summary: Purchase and installation of two Diesel particulate filters on two 1996

Freightliner trucks.

10. Applicant: Sierra Senior Services

County: Nevada

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Total AB 2766 Funding Request: \$37,000.00

Co-Funding: \$15,000.00

Cost Effectiveness: \$99.63 per pound

Brief Summary: Purchase a zero emission Vehicle to replace a gas powered 2004 Honda

Pilot, used for the delivery of Meals on Wheels to homebound seniors.

11. Applicant: Fire Safe Council of Nevada County

County: Nevada

Total AB 2766 Funding Request: \$45,000.00

Co-Funding: \$10,000.00

Cost Effectiveness: \$86.39 per pound

Brief Summary: Purchase of a new Tesla zero emissions vehicle to replace a 2006 Toyota

Highlander, hybrid vehicle.

12. Applicant: Bear Yuba Land Trust

County: Nevada

Page 152

Page 144

Total AB 2766 Funding Request: \$15,000.00

Co-Funding: \$15,000.00

Cost Effectiveness: \$41.84 per pound

Brief Summary: Building of a short trail to connect Bragg Avenue and Carol and Davis

Drive for non-motorized use.

RFPs Submitted for Grant Cycle Year 2020

		Nevada	Nevada Sierra Commons	Tahoe Truckee Unified School District	Nevada County Health & Nevada Human Services	Tahoe Truckee Unified Nevada School District	Nevada Sierra Commons	Hansen	County Applicant
	ncil of	Services,		Unified	Health &	Unified		Enterprises	cant
	Purchase of a Tesla EV	Purchase of an Electric Vehicle	Purchase and installation of a natural gas powered generator for a business critical response center	Replace older school bus for special needs kids with a new low NOx bus	Upgrade of existing Video Conferencing System	Replace older school bus with a new low NOx bus	Purchase and installation of telecommuting equipment	Purchase of cleaner diesel truck	Project Description
55	57	61	74	81	84	85	90	94	(100 pts Max.)
\$ 15,000.00	\$ 45,000.00	\$ 37,000.00	\$ 26,000.00	\$ 120,000.00	\$ 21,196.00	\$ 165.000.00	\$ 24,000.00	\$ 26,000.00	Requested Grant Amount
\$ 15,000.00	\$ 10,000.00	\$ 15,000.00	\$ 9,240.00	\$ 25,770.90	\$ 8,804.00	\$ 24,090.78	\$ 16,555.00	\$ 119,444,00	Co-Funding by Applicant
project life: \$	10 year project life: \$	10 year project life: \$	10 year project life: \$	project life: \$	project life: \$	project life: \$	project life: \$	5 year project life: \$	Cost Effect
project life: \$ 41.84 per pound	86.39 per pound	10 year project life: \$ 99.63 per pound	10 year project life: \$ 57.35 per pound	project life: \$ 10.22 per pound	project life: \$ 36.79 per pound	5.09 per pound	19.53 per pound	10.50 per pound	Cost Effectiveness Score
25	63	46	54	939	127	2591	148	545	Emissions Reduced (lbs)

Total of Requested Grant Amounts: \$ 479,196.00 Amount available for Disbursement: \$185,332

2	7
Inc. Senior Citizens of Sierra County	
Subsidized van pool services for senior citizens 76	
76	
€9	1
5,721.00	
69	
54.000.00	
l year project life:	
197	
0.93	
30.93 per pound	
177	39

Total of Requested Grant Amounts: S 5,721.00 Amount available for Disbursement: \$5,672.00

`	۷.	97	
Plumas		Plumas	
Plumas Public Works	Plumas County Dept of	Plumas McGarr Excavation, Inc.	
le le contra	Purchase of two diesel particulate	Purchase of cleaner diesel truck 85	
Į,	ì	85	
Ü	9	69	\dashv
3,022.55	2 (22 55	70,000.00	
. 0	9	69	
27.202.02	77 704 65	65,000.00	
project men	10 year 10 yea	project life: \$ 17.57 per pound	10 year
	99 99	17.57	
	er pound	7 per pound	
	4	877	

EXHIBIT SUMMARY SHEET

Proposing	g Entity (Include oth	er participating en	tities): Hansen B	ros. Enterprises
Contact F	Person: Lerry Pel	erson		
Address:	P.O. Box 1599 (11727 La Barr N	leadows Rd.) G	rass Valley, CA 95945
Phone#	(630) 273-3381	FAX # (530) 273	3-4396 EMA	ll.: lpeterson@gohbe.com
Total f Budge	Project . it:	AB 2766 Funds	Co-Funding	Total Project Costs
	Capital Costs	\$26,000 .00	<u>\$ 119,444.00</u>	\$ 145.444.00
	Operating Costs	\$ 0	\$0	\$ 0
	TOTAL	\$ 26,000.00	<u>\$ 119.444.00</u>	\$ 145,444,00
Туре	of Project: (chec	k one)		
	X Quantifia	ble Project		
	Reduced	Emission Vehicle	s Project	
imple	mentation Area i	for Project: Chec	k if District-wide	<u> </u>
	Describe the Imp	plementation Area	for the Project (e.	g. city, county, region):
Estin	nated Emission R	eductions:		
A.	Emission Reduc	tions (lbs/yr) <u>522</u>		
	Reactive Organi	ic Gases 20 Ni	trogen Oxides 486	<u>P</u> M10 <u>16</u>
B. V	/ehicle Miles Trave	eled (VMT) Reduce	ed	
S	Single Occupancy	Vehicle Trips Redu	iced	15
C. N	lumber of people (reached per day th	raugh public educ	ation
Cost-eff	ectiveness:	49.81 per	pound (AB 2766 F	funds Only)
	oject Description o replace a 200:		quality by purc	thasing a new 2020 class 6 HHD
Northern S	iera AQMD	Atta	chment 1-1	Exhibit Summary Sheet

REQUEST FOR PROPOSAL CONTENTS CHECKLIST

Anniicant: Hansen	Bros. Enterprises
	nd attach this checklist with your application.
X	Exhibit Summary Sheet - page 1-1
X	Request for Proposal Contents Checklist - page 2-1
X	Authorization Letter/Resolution - page 3
X	Project Description - page 4
X	Project Organization/Background - page 5
X	Emissions Benefits/Cost-Effectiveness - page 6
X	Work Statement - page 7
×	Funding Request/Breakdown of Cost - page 8
L	Schedule of Deliverables/Monitoring - page 9
×	All Pages Numbered
	3 Copies of Proposal, One Original, (X emailed)
	(CHECK ONE ONLY) Quantifiable Project X
П	- OR -
لــــا	Reduced Emission Vehicles Project

GENERAL & NGINEERING CONTRACTOR
CSL# 207705
Residential & Commercial Sile Development
Quality Aggregates & Ready Mixed Concrete
HBE Equipment Rentals - Sales - Service
Landscape & Masonry Products
U-Carl Concrete



Grass Valloy: (530) 273-3381 – All Servicos (530) 273-3100 - Rontal Yard (530) 272-5401 - Main Office Fost Colfax: (530) 346-2432 – Ready Mix Concrete (530) 346-8174 - LandscapelMasonry Yard (530) 346-6798 - Main Office Fox www.gohbe.com

December 27, 2018

To Whom It May Concern:

At a regularly scheduled Board of Directors meeting, December 27, 2018, the board restated the resolution of the board authorizing any and all of the corporate officers of Hansen Bros. Enterprises to conduct all normal business of the corporation, including, but not limited to, banking and financial transactions, securing of operating capital, equipment purchases, equipment loans, acquisitions or disposal of businesses, property, land, line(s) of credit, real estate transactions, insurance, bonding and other business of the corporation.

Duly elected officers of the corporation are:

Jeffery I. Hansen Sue H. Peterson Frank P. Bennallack Lerry D. Peterson Craig I. Arthur Helen Hansen Kirk C. Harris

President and General Manager Corporate Secretary and Vice President Corporate Treasurer and Vice President Vice President, Special Projects

Rental Manager and Vice President
Cash Manager and Vice President
Construction Manager and Vice President

These officers, any and all, are hereby directed to conduct the business of the corporation of Hansen Bros. Enterprises.

Sincerely,

Sue H. Peterson

Sue H. Peterson Corporate Secretary Hansen Bros. Enterprises speterson@gohbe.com

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Project Description

Applicant: Hansen Bros. Enterprises

Ohiectives:

- To improve air quality by Purchasing a new 2020 class 8 HHD truck to replace a 2003 class 8 truck which ran an average of 10,535 miles in 2017 and 2018;
- The 2003 truck will then be sold out of state or retired and rendered inoperable.

- 1. Write specifications for the purchase of a new 2020 Concrete Ready Mix truck.
- 2. Request bids for the purchase of the new 2020 class 8 HHD truck.
- 3. Order the above mentioned 2020 truck that meets the specifications and has the most competitive responsible quote.
- 4. Take delivery of the new truck.
- 5. Remove the mixer unit from the 2003 truck and install that mixer unit on the new 2020 truck.
- 6. Sell the 2003 truck out of state before the end of 2020 and provide proof of purchase from an out of state purchaser to NSAQMD OR
- 7. Retire and render the 2003 truck inoperable, with no chance of repair, by breaking a hole in the engine block and cutting the frame off just behind the cab. Photos will be provided to NSAQMD.
- 8. The odometer readings for the new 2020 truck will be recorded annually through the company's computerized program to calculate cost effectiveness of AB2766 DMV surcharge program.

Work Statement

Applicant: Hansen Bros. Enterprises

January 7, 2019: Review final quotes on new 2018 class 8 truck. Order the truck from the lowest responsible dealer offering the complete package as specified.

- +- June 3, 2019: Take delivery on the new class 8 truck.
- +- June 4, 2019: Start removing the mixer unit from the 1998 truck, rebuild the unit and install the mixer unit on the new 2018 truck.
- +- June 5, 2019: Log the beginning odometer readings on work orders so the tracking of miles driven, can be recorded in our computer Equipment Management module for Emission Cost-Effectiveness Calculations.
- +- June 6,2019: Send a Monitoring Report and a Claim for Payment, along with a copy of the truck dealer's invoice to NSAQMD.
- +- June 10,2019: Install decals stating: "This low emissions truck was partially funded by NSAQMD utilizing DMV Surcharge Funds to improve local air quality".

Each January from January 2020 to January 2023 send a Monitoring report to NSAQMD.

June 10, 2024 send Final Report to NSAQMD to close out the contract.

Project Organization/Background

Applicant: Hansen Bros. Enterprises

Organization: Hansen Bros. Enterprises started business in 1953 and is a General Engineering Contractor, CSL 207705, producer of aggregate materials, ready mix concrete, a landscape and m asonry materials supplier and operates 2 equipment rental yards.

At present time Hansen Bros. has approximately 105 employees, operates 46 Heavy Duty Diesel trucks and 85 Diesel Off-Road pieces of heavy equipment. Operations are seasonal.

Background (Air Quality Improvements):

AB 2766 and AB 923 with PCAPCD, 2011: Repower with a tier 3 engine in a 1999 John Deere 544H loader. Provider and installing subcontractor: Pape Equipment, the Sacramento John Deere dealer. PCAPCD contact: Heather Kuklo at 530-745-2339.

Hansen Bros, Enterprises funded, 2011: Installations of Cleaire Longmile, Diesel Particulate Filters, on 4 class 8 trucks. Provider and installer: Cummins West of Sacramento and A-Z Bus Sales Emissions Solutions Group, installed 2 units each.

Carl Moyer funded programs with NSAOMD, 2008, 2012 and 2014: Repowers of new tier 3 engines on 1976, 1978 and 1979 Caterpillar 633D scrapers. Provider and installing subcontractor: Holt of California, the Sacramento Caterpillar dealer.

AB 2766 DMV Surcharge Fund Program with NSAOMD, 2012: Cleaire Longmile Diesel Particulate Filters installed on 4 more trucks. Provider and installer: A-Z Bus Sales Emissions Solutions Group of Sacramento, California.

AB 2766 DMV Surcharge Fund Program with NSAOMD, 2013: Purchase of 2014 Class 8 Diesel Truck. Provider: Nor-Cal Kenworth, Sacramento, California.

AB 2766 DMV Surcharge Fund Program with NSAOMD, 2014: Purchase of 2015 Class 8 Diesel Truck. Provider: Nor-Cal Kenworth, Sacramento, California.

AB 2766 DMV Surcharge Fund Program with NSAOMD, 2015: Purchase of 2016 Class 6 Diesel Truck. Provider: Nor-Cal Kenworth, Sacramento, California.

AB 2766 DMV Surcharge Fund Program with NSAOMD, 2017: Replace 7 ea. recalled Cleaire Longmile Diesel Particulate filters, by Holt of California, Sacramento, CA.

Hansen Bros. Enterprises tracks all costs and progress daily with Viewpoint Construction Software, Equipment Management module. Work Orders are assigned for maintenance, repairs and subcontract work. Mileage and hours of trucks and equipment are logged and entered into the computer on a reoccurring basis, so we can track both cost efficiency and emissions reductions.

Preparation and management of this project will be handled by Lerry Peterson, Vice President, Special Projects.

The worksheet calculator used in preparing estimates of emissions reductions for the proposal and reporting is provided by NSAQMD, entitled "Emissions Reduction and Cost Effectiveness Spreadsheet Calculator", and may be found on page T2 of the Technical Appendix.



Emission Benefits/Cost Effectiveness

Applicant: Hansen Bros. Enterprises

Emassion Benefits:

Project life: S years
Annual ROG reductions: 20 lbs./year
Annual NOx reductions: 486 lbs./year
Annual PM10 reductions: 16 lbs./year

Total project ROG reductions:

Total project NOx reductions:

Total project PM10 reductions

100 lbs. over 5-year period
2430 lbs. over 5-year period
80 lbs. over 5-year period

Annual Vehicle Miles Traveled (VMT) 2017-18 10,535 miles/year. Total project cost: \$145,444.00

AB 2766 cost: 18% \$26,000.00

Total project cost-effectiveness: \$55.73 \$/lb. AB 2766 cost-effectiveness: \$49.81 \$/lb.

The above information is based on the Truck mileage odometer readings attached as page T1 and Emission Reduction and Cost Effectiveness spreadsheet calculator attached page T2 and Emission-Factor tables-March-2018.

Work Statement

Applicant Hansen Bros. Enterprises

January 6, 2020: Review final quotes on new 2020 class 8 truck. Order the truck from the lowest responsible dealer offering the complete package as specified.

- +- June 2, 2020: Take delivery on the new class 8 truck.
- +- June 3, 2020: Start removing the mixer unit from the 2003 truck, rebuild the unit and install the mixer unit on the new 2020 truck.
- +- June 5, 2020: Log the beginning odometer readings on work orders so the tracking of miles driven, can be recorded in our computer Equipment Management module for Emission Cost-Effectiveness Calculations.
- +- June 8,2020: Send a Monitoring Report and a Claim for Payment, along with a copy of the truck dealer's invoice to NSAQMD.
- +- June 12,2020: Install decals stating: "This low emissions truck was partially funded by NSAQMD utilizing DMV Surcharge Funds to improve local air quality".

Each January from January 2021 to January 2023 send a Monitoring report to NSAQMD.

June 10, 2023 send Final Report to NSAQMD to close out the contract.

Funding Request/Breakdown of Cost

Applicant: Hansen Bros. Enterprises

Task	AB 2766 Cost	HBE Cost	Total Cost
Purch ase new 2020 Class 8 Truck:	\$26,000.00	\$119,444.00	\$145,444.00
Grand Total Direct Cost*:	\$26,000.00	\$119,444.00	\$145,444.00

^{*}Planning, monitoring, management, miscellaneous, removal/reinstall mixer units, operating and administrative costs will be paid separately by Hansen Bros. Enterprises and are not included in the "Grand Total Direct Cost."

This project will be monitored using our computer Equipment Management module for tracking annual mileage on each truck and using the <u>Emission Reduction and Cost Effectiveness</u>, located in the Technical Appendix, page T2, and the Emission-Factor-Tables-March-2018.

Schedule of Deliverables/Monitoring Program

Applicant: Hansen Bros. Enterprises

For the purposes of this project, we will be collecting data (mileage) for the 2020 truck, partially funded by AB2766 funds, upon delivery and at the end of the 2nd and 4th quarters. The 4th quarter reading is also the annual mileage reading. This mileage data will be plugged into the Emission Reduction and Cost Effectiveness Spreadsheet Calculator, to determine the cost-effectiveness of funding this air quality project.

Schedule:

- +- June 5, 2020: Log the beginning odometer readings for the new 2020 truck on work orders so the tracking of miles driven can be recorded in our computer Equipment Management module for Emission Cost-Effectiveness Calculations and project Monitoring Reports.
- +- June 8, 2020: Provide NSAQMD with the first Monitoring Report to establish the beginning miles.

Each January from January 2021 to January 2023 provide NSAQMD with the annual Monitoring Report.

June 2023: Provide NSAQMD with the Final Report.

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EXHIBIT SUMMARY SHEET

Sierra Commons Remote Working Center

Proposing Entity: Sierra Commons **Contact Person:** Robert X Trent

Address: 792 A Searls Ave., Nevada City, CA 95959

Phone #: (530) 265-8443 FAX #: NA EMAIL: info@sierracommons.org

Total Project Budget:

	AB 2766 Funds	Co-Funding	Total Project Costs
Capital Costs	\$24,000	\$9,855	\$33,855
Operating Costs	\$0	\$6,700	\$6,700
TOTAL	\$24,000	\$16,555	\$40,555

Type of Project: (check one)

✓ Quantifiable Project

__ Reduced Emission Vehicles Project

Implementation Area for Project: Check if District-wide ____

Describe the implementation Area for the Project (e.g. city, county, region): The greater Nevada City and Grass Valley areas

Estimated Emission Reductions:

A. Emission Reductions (lbs/yr)

Reactive Organic Gases 58.03 Nitrogen Oxides 64.25 PM10 25.22

B. Vehicle Miles Traveled (VMT) Reduced <u>131.544</u>
Single Occupancy Vehicle Trips Reduced <u>1.044</u>

C. Number of people reached per day through public education .33

Cost-effectiveness: \$19.53 per pound (AB 2766 Funds Only)

Brief Project Description: A full-featured telecommuting center with videoconferencing and voice communication workstations. Public education provides prospective telecommuters tools to successfully negotiate remote working arrangements with out-of-area employers.



REQUEST FOR PROPOSAL CONTENTS CHECKLIST

Applicant: Sierra Commons

Please complete and attach this checklist with your application.

- ✓ Exhlbit Summary Sheet page 1
- ✓ Request for Proposal Contents Checklist page 2
- ✓ Authorization Letter/Resolution page 3
- √ Project Description page 4
- ✓ Project Organization/Background page 5
- ✓ Emissions Benefits/Cost-Effectiveness page 6
- √ Work Statement page 7
- ✓ Funding Request/Breakdown of Cost page 8
- ✓ Schedule of Deliverables/Monitoring page 11
- ✓ All Pages Numbered
- ✓ Proposal, One Original
- ✓ (CHECK ONE ONLY) Quantifiable Project
 - OR -

Reduced Emission Vehicles Project

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AB 27766 Authorization Letter

Sierra Commons
792 A Searls Ave.
Nevada City, CA
95959
(530) 265-8443
Info@sierracommons.org

To whom it may concern,

This authorization letter serves as consent and approval from the Sierra Commons board of directors to submit grant applications for the AB 2766 DMV Surcharge Fund Program - grant year 2020.

If you have any questions, please do not hesitate to contact Robert Trent or Slerra Commons' Board Treasurer, Joshua Robinson.

Best regards,

Joshua Robinson

Treasurer

Sierra Commons Board of Directors

JoshuaRobinson@tcbk.com

(530) 478-6001

Project Manager Contact: Robert Trent

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Project Description

This project will help transition traditional Nevada County commuters into telecommuters and support them by providing four dedicated telecommuting workstations located at Sierra Commons.

For the past decade, Sierra Commons has been serving Western Nevada County's small businesses with office infrastructure, education, and mentoring. Our community relies on us for dependable internet connectivity and a productive work environment. Our facility is optimized for solopreneurs and remote workers who complete their day-to-day work with limited verbal conversations. Unfortunately, our facility is not currently designed to support people who are heavy phone or videoconferencing users.

By converting a currently underutilized area at Sierra Commons into a dedicated telecommuting workspace, we will help reduce emission, improve our economy by helping keep local dollars circulating locally, and support a healthier lifestyle for people using the Remote Working Center.

Educating traditional commuters on the benefits of telecommuting and providing them with motivation and the resources to approach their employers with a telecommuting proposal is also a critical aspect of this project.

The key components of the Remote Working Center are:

- Facilities upgrades
- Providing telecommuting technologies
- Creating an ergonomic and modern telecommuting office environment
- Training out-of-area commuters how to develop and deliver telecommuting proposals
- And public outreach

In addition to the key components listed above, the project will require project management, planning, curriculum development, data collection, and evaluation.

Project Organization/Background

Founded in 2009, Sierra Commons is a 501(c)(3) business education center, located in Nevada City. Sierra Commons provides a platform for local businesses to start, grow and thrive. The organization has been instrumental in launching and reigniting over 150 local businesses and our partnership with the Sierra Small Business Development Center is extending this positive impact by providing free one-to-one business consulting with local entrepreneurs and small businesses.

Our ADA accessible campus includes a 1,700 square foot main building that features coworking spaces, meeting rooms, and office administration. The secondary building holds up to thirty people and serves as a classroom, coworking space, and meeting space. Surrounding these buildings are a large patio, shaded lawns, and 12 parking spaces. Typically, approximately 30 onstreet parking spaces are also available on Searls Avenue.

Successful execution of this project involves collaboration between Slerra Commons' leadership team, 20 + members, and professional contractors. Slerra Commons' Board and select coworking members, including an experienced architect and Building Information Modeler (BIM) contractor will support the project. Project contractors will be selected based on competitive pricing, experience, licensing, insurance, availability and reputation.

Robert Trent, Sierra Commons Executive Director, and Joe Fish of the Northern Sierra Air Quality Management District (District) have worked together to validate the methodology for generating emissions reductions estimates for this proposal and how to prepare accurate reporting as part of the requirements of this project. Sierra Commons will use our existing project accounting systems and professional bookkeeping service, Accountability Pro Inc., to track expenses and funding sources, as well as completing project financial reports.

Emissions Benefits/Cost-Effectiveness

In 2020 there are ~252 workdays. Up to 11,400 people will commute outside of Nevada County—racking up a median 63 one-way miles commuted to the top three out-county destinations (2016 statistics). This project will help reduce miles traveled and emissions in Nevada County while improving everyone's quality of life. Our reductions calculations are based on a conservative estimate of transitioning the equivalent of four full-time commuters into remote workers. Usage scenarios will most likely involve a larger number of participants with varying weekly schedules.

Estimated one-way vehicle trip reductions: 1044 one-way trips per year

Estimated reductions in vehicle miles traveled: 131,544 Miles

Estimated emission reductions and cost-effectiveness:

Estimated emission reducti	0112 0110 000-	
Nitrogen Oxides (NOx)	64.25	Pounds/year
Reactive Organic gases (ROC	S) <u>58.03</u>	Pounds/year
Particulate Matter (PM2.5)		Pounds/year
Cost-Effectiveness:	19.53	Cost/pound

Work Statement

The scope of work falls under five categories: Planning, Building, Education, Outreach, and Evaluation. Once funding is secured and planning is complete, the building phase will bring building improvements, and technology and infrastructure will be purchased and put into place. Using well-established communication channels, Sierra Commons will develop and execute an outreach plan raising awareness about the availability of our Remote Working Center and free-to-the-public telecommuter classes. Use of the center will be tracked continually and effectiveness will be monitored through surveys and interviews.

Project Phases

Planning

- 1. End-user needs analysis including interviews and surveys
- 2. Usage scenarios identified
- 3. Technology analysis with emphasis on videoconferencing
- 4. Office design for optimal ergonomics and functionality
- 5. Safety and security plan
- 6. Permitting (as needed)
- 7. Detailed build-out schedule
- 8. Integrated outreach plan
- 9. Data tracking and evaluation plan
- 10. End-user policies and agreements
- 11. Contractor and supplies sourcing/bidding
- 12. Contractor agreements secured

Building

- Building supplies/technology/furniture purchases
- 2. Building modifications as needed
- 3. Testing equipment
- 4. Staff training
- 5. Soft launch

Education

- 1. Develop curriculum
- 2. Add resources to sierracommons.org
- 3. Conduct trainings (2 minimum)
- 4. Update curriculum as needed

Outreach

- 1. Execute integrated outreach plan including:
 - a. Social/Broadcast/Print media
 - b. 211 and calendar listings
 - c. Speaking opportunities
 - d. Email newsletters
 - e. Signage including DMV logo
- 2. Create and publish user documentation and policies
- 3. Update sierracommons.org website
- 4. Project Launch/project funding acknowledgement

Evaluation

- 1. Track usage data
- 2. Track emissions reduction data
- 3. Generate and publish reports
- 4. Maintain and improve systems as necessary

Funding Request/Breakdown of Cost

AB 2766 funds will be used to make building improvements, purchase and activate telecommuting technology, purchase and create a welcoming and functional office environment, develop and deliver educational contents, and fund a public awareness campaign. Sierra Commons will cover all operational costs for this project.

BUDGET		Matching Funds			
BONGEI	AB 2766	Sierra Commons Co- Funding	in- Kind	Administration	Cost
LANNING					\$4,500
Project Management	\$3,500	\$1,000	44.000	11.04	\$1,000
egal			\$1,000	\$35	\$135
orinting		\$100	64 000	\$35	\$5,635
Planning Subtotal	\$3,500	\$1,100	\$1,000	433	
BUILDING					\$1,050
Project Management	\$1,050		40.000		\$5,550
Contractors	\$3,050		\$2,500		\$5,700
Building supplies	\$4,000		\$1,700		\$3,700
Technology	\$3,450	\$300	AND RESIDENCE PROPERTY.		\$4,200
Office	\$4,000		\$200		\$20,400
Bullding Sub oral	\$15,550	\$300	\$4,550	30	720,400
EDUCATION					\$600
Project Management	\$600		1	-	\$600
Curriculum Development	\$600		1		\$608
Instruction	\$600				\$250
Contingency	\$250		A .	\$0	\$2,05
Education Subtotal	\$2,050	\$1	\$() 30	72,00
OUTREACH			44.50		\$3,75
Outreach Coordinator	\$2,250		\$1,50		\$48
Signage	\$250		\$20	\$200	\$40
Public event		\$20			\$4,63
Outreach Subtotal	\$2,50	\$20	0 \$1,70	9255	, T, U
EVALUATION					\$35
Project Management	\$35	\$40	10	\$300	
Bookkeeping				\$35	-
Printing	\$5	A A A	in d	\$335	-
Evaluation Subtotal	\$40	0 \$40	,0 ,		
BUDGET TOTAL	\$24,00	\$2,00	00 \$7,25	\$605	\$33,85

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Sierra Commons 9/03/2019 8

EQUIPMENT COSTS		Matching Funds			
	AB 2766	Sierra Commons Co- Funding	in- Kind	Administration	Cost
TECHNOLOGY					
MF laser Printer	\$300				\$300
Router	\$200				\$200
Charging stations	\$100				5100
VPN (virtual private network)	\$100				\$100
Microphones			\$150		\$150
Headsets	\$200				\$200
Video monitors	\$800				\$80
Cabling	\$100				\$10
Projector	\$450	The state of the s			\$45
Digital whiteboard	\$200				\$20
Video cameras	\$400				\$40
Access control	\$600				\$1,20
Technology Subtotal	\$3,450		\$150	\$0	\$3,60
OFFICE					
Desks	\$1,350				\$1,35
Mobile dividers	\$1,150				\$1,15
Chairs	\$800				\$80
Sound baffels	\$400	AND SECURITION OF SECURITION O			\$40
Secured storage	\$200		\$200		\$40
Whiteboard	\$100				\$10
Office Subtotal	\$4,000	\$0	\$200	\$0	\$4,20
BUILDING					
insulation/Ceiling	\$800		\$300		\$1,10
Heating/cooling	\$300				\$36
Lighting	\$500				\$50
Dry Wall	\$400				\$40
Reclaimed wood	\$400	NAME AND ADDRESS OF THE OWNER, WHEN PERSON AND PARTY AND PARTY AND PARTY AND PARTY AND PARTY AND PARTY.	\$400		\$8
Electrical	\$250		\$250		\$5
Security	\$500			9	\$5
Floor/carpeting	\$90	0	\$500		\$1,4
Paint	\$20				\$2
Plumbing	\$20	O			\$2
Hardware	\$25	D	\$250		\$5
Demo/disposal	\$30				\$3
Building Subtotal	\$3,90	0	\$1,700	0	\$5,6
Equipment Total	\$11,35	\$	0 \$3,400	50	\$14,7

34

Sierra Commons 9/03/2019 9

OPERATING COSTS	Matching Funds			
	AB 2766	Sierra Commons Co-Funding	in-Kind	Admininstration
Staffing	\$0	\$2,000	\$1,500	\$1,800
Added utilities costs	\$0	\$1,200		\$200

35

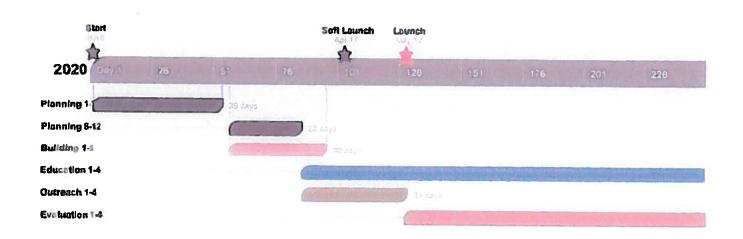
Schedule of Deliverables/Monitoring

Schedule of Deliverables

Please reference Work Statement on Page 7 for a listing of project tasks and subtasks.



Sierra Commons Remote Working Center



Sierra Commons

9/03/2019

Monitoring

All individuals using the Remote Working Center will be required to sign-in to the facility, provide contact information, and fill out a brief online survey. The survey may include, but is not limited to, the following questions:

- 1. How many miles did you travel to Sierra Commons?
- 2. Which mode of transportation did you use to get here?
- 3. Did you travel here by yourself?
- 4. Did Sierra Commons help you transition from traditional commuting to telecommuting?
 - a. How many miles were you driving to work per day?
 - b. How many days per week were you driving to work?

Survey data will automatically become entered into our data analysis software to ensure accurate tracking and reporting.

A follow up survey will solicit user feedback on the Remote Working Center's ability to provide telecommuting services.

ATTACHMENT 1

Sierra Commons Board of Directors

The Board of Directors at Slerra Commons includes dedicated individuals from a wide variety of business backgrounds and skills.

Chair - Evelyn Fasset

SBDC Business Consultant and Technology Specialist

Secretary - Erika Kosina

Media and Communication Specialist

Treasurer - Joshua Robinson

Tri Counties Bank Branch Manager - Nevada City

Director- Adam Dunn

Community Builder/Social Innovation Educator/Impact Investment Consultant

Executive Director - Robert X Trent Business Consultant and Serial Entrepreneur

EXHIBIT SUMMARY SHEET

s obosing Entity (include other	participating entities):	Tehoe Truckee	Unified School District

Conti	act Person: Tony Lav	CZZ0		
Addr	css: 12485 Joerger Di	r., Truckee, CA 96161	I	
Phon	e #: (530) 550-0776	FAX #: (53	0) 550-0739	EMAIL: tlavezzo@ttusd.org
Total	Project Budget:			
		AB 2766 Funds	Co-Funding	Total Project Costs
	Capital Costs	\$ 165,000,00	\$ 24.090.48	\$ 189,090.78
	Operating Costs	\$ 0	\$ 0	\$_0
	TOTAL	\$ 165,000,00	\$ 24,090,48	<u>\$ 189,090.78</u>
Туре	of Project: (check	one)		
	Quantifia	ble Project		
	X Reduced	Emission Vehicles P	roject	
Imple	ementation Area fo		if District-wide X	
opera	Describe the Imp ted in the Town of T	dementation Area f ruckee, Nevada Cou	or the Project (e.s	s. city, county, region): Bus will be adding area.
Estim	ated Emission Red	uctions:		
A.	Emission Reducti	ons (lbs./yr.)		
	Reactive Organic	Gases <u>634.44</u>	Nitrogen Oxides <u>1</u>	007.95 PM ₁₀ 49.04
В.	Vehicle Miles Tra	veled (VMT) Reduc	ed <u>0</u>	Company of the company
	Single Occupancy	Vehicle Trips Redu	ced 0	
C.	Number of people	reached per day thro	ough public educat	on 10, JUL 1 2 2019
Cost-	effectiveness:	\$ 5.09 per por	<u>ınd</u> (AB 2766 Fun	ds Only)
Brief	Project Description	10		two we we

Replace one older school bus with a new bus that employs a NOx and PM emission control system.

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Low NOx School Bus Replacement

Tahoc Truckee Unified School District REQUEST FOR PROPOSAL CONTENTS CHECKLIST

Applicant:	Tahoe Truckee Unified School District
Please complete	e and attach this checklist with your application.
1	Exhibit Summary Sheet - page 1
	Request for Proposal Contents Checklist - page
J	Authorization Letter/Resolution - page 3
	Project Description - page 4
1	Project Organization/Background - page 5
	Emissions Benefits/Cost-Effectiveness - page 6
J	Work Statement - page 2
1	Funding Request/Breakdown of Cost – page 2
1	Schedule of Deliverables/Monitoring - page 10
	Ali Pages Numbered
	Three Copies Of Proposal Plus One Original
	(CHECK ONE ONLY)
	Quantifiable Project
(P	- OR -
	Reduced Emission Vehicles Project



District Office Hobert J. Lon Ed D June 20, 2019

1603 Donner Paus Rd Truckes, CA 56111-

4963 P (030) 502-1800 F (537) 507-1808 Whythedom

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Northern Sierra Air Quality Management District PO Box 2509 Grass Valley, CA 95945

Dear Northern Slerm Air Quality Management District.

the following Individual(s) are authorized to a proposal on behalf of Tubos Crackee Unified School District

Project Mapagers for the Proposal

Vanetic Rondonu
Director of Transportation
12485 Jourger Rd
Fruckeo, CA 96161
(530) 550-0745 or prondenu@timed.org

Fory Laye.cm
First Manager
| 2485 Joonser Rd
Truckee CA 96161
| 510) \$50-0763 or (\$10) \$56-0745 or slavezzo(a, mad one

Authorized Suggest of the Proposal

Todd Rivers
Exceptive Director of Fiscal Services
11603 Dunner Pass Rd
Truckee, CA 46161
(510) 382-2541 or inverse gusd, one

Robert J. Lori. Ed.D.
Superintendent Chief Learning Offices
11603 Donner Pass Rd
Truckee, CA 96161
(510) 582-2550 or rten@maxd.org

17

Robert Len. Ed.D.

Superintendent Chief Learning Officer

Signature:

Mactor E

JUN 2 5 2019

Date

Project Description

The objective of the Low NOx School Bus Replacement project is to replace an older diesel vehicle with a newer vehicle that has a NOx and PM emission control device. The older diesel vehicle, like the one outlined in the project, can only be retrofitted for the control of PM emissions not NOx. NOx is harmful atmospheric pollutant known for contributing to smog and acid rain. The only way to reduce the NOx created by the vehicle in question is to replace it with a new vehicle that will employ NOx controlling technology.

This project would take a 1999 diesel school bus off of the road and replace it with a 2019 diesel school bus that would employ the latest NOx and PM control strategies. The new 84 passenger diesel school bus will exceed 2010 NOx control requirements for heavy duty diesel vehicles. With the replacement of the older school bus it would lower the NOx and PM emissions created in the region. This would ensure less exposure to children at school sites and less exposure to residents throughout the community.

Project Organization/Background

Tahoe Truckee Unified School District (TTUSD):

The Tahoe Truckee Unified School District Transportation Department provides transportation to 3,000 students covering over 400,000 miles a year. The fleet of over 30 school buses operates from Kingvale on Donner Summit to Hirschdale on Highway 80 towards Reno, from Tahoma on the Westshore of Lake Tahoe to Prosser on the North end of Highway 89.

The District is actively working towards reducing the impact of diesel emissions within the Tahoe Truckee School District community. Buses are replaced with the newest, cleanest, diesel technology when district funds are available, or the district applies for grants when funds are not available. In the past, TTUSD has been awarded funding for the replacement of old buses with new clean school buses. For the buses that did not qualify for replacement, TTUSD has been awarded funding for PM controlling retrofits that do not control NOx. The next step for a cleaner fleet is to replace the older buses with new buses that employ NOx controlling SCR technology.

This proposal is to replace one school bus with a new school bus that will employ the latest NOx and PM emissions control technology. TTUSD will purchase the bus through Buswest. Below is information on Buswest, the company we have selected.

Buswest:

Buswest is a transportation dealer-distributor serving the education, government, public sector, commercial and private fleet markets with a broad portfolio of bus solutions. Buswest Specializes in Thomas Built Buses (TBB) and offer a full range of new and used buses. From the largest to the smallest, wheelchair access/ADA compliant and more. All Buswest school buses are rigorously tested to make sure they meet or exceed all Federal and State safety standards. Buswest is part of the Velocity Vehicle Group and has multiple sales and service locations serving California, Arizona, Nevada, and Hawaii.

ACCOUNTING:

Buswest will provide a single invoice for the vehicle, taxes, and any other fees or options. The invoice will be recorded through the normal Tahoe Truckee Unified School District accounting management system, as required. Grant funds will be received by TTUSD in a onetime lump sum payment and put towards the total cost of the purchase. The remaining balance will be paid by TTUSD.

Emissions Benefits/Cost Effectiveness

Under this proposal, one school bus will be replaced with a new diesel school bus that will employ the latest NOx and PM control strategies. This system will provide a very substantial drop in NOx emissions. The calculations for these reductions are listed below. In addition to NOx reductions, the system on the new buses will lower PM emissions by over 85 percent. This is critical to the drivers, students, and communities in which the buses operate because currently no NOx emission control strategy available for the bus must be replaced.

Due to the lower speeds of school bus routes the Methods to Find the Cost-Effectiveness of Funding Air Quality Projects - 2005 Edition table 1: Diesel Bus Emissions Factors do not give accurate emissions factors. The following calculations will be based on the California Executive Order for the vehicle to be replaced and the new vehicle. The information below includes both engines and the Executive Order will be attached in the technical appendices:

1999 Thomas Westcoast-ER

EO: A-13-125

EPA Engine Family: XCPXH0442HRK

Horsepower: 300 bhp PM: 0.10 g/bhp-hr

NMHC (ROG): 1.3 g/bhp-hr

NOx: 4.0 g/bhp-hr

2019 Thomas HDX

EO: G-14-012 EPA Engine Family: JCEXH0540LAX

Horsepower: 300 bhp PM: 0.001 g/bhp-hr

NMHC (ROG): .02 g/bhp-hr

NOx: .16 g/bhp-hr

Engine hours:
Engine hours are captured from our Zonar GPS tracking system that is installed on all TTUSD's Engine hours are captured from our Zonar GPS tracking system that is installed on all TTUSD's vehicles. Vehicles are put on set routes so that mileage and engine hours do not deviate from year to year.

		THE RESIDENCE AND A STATE OF THE STATE OF TH	AND THE COMMENT	A SAME
	ting for all Dis.	450,000	TOTAL A	749.6
23	6/20/2018 7:38am	6/20/2019 12:12:58pm	5875.4	745.0
	MZUIZU IO 1.30gmi	OI MAILE		



Emissions Benefits/Cost Effectiveness (continued)

Vehicle to be Replaced Emissions Calculation

Annual NMHC (ROG) in Grams = (NMHC x Annual Hours) x Horsepower 292,110g = (1.3 x 749) x 300

Annual NMHC (ROG) in Grams \div Grams to Lbs. conversion factor = Annual NMHC in lbs. 292,110g \div 454 = 643.41 lbs.

Annual NOx in Grams = $(NOx \times Annual \ Hours) \times Horsepower$ 898,800g = $(4 \times 749) \times 300$ Annual NOx in Grams = Grams to Lbs. conversion factor = Annual NOx in Lbs. 898,800g + 454 = 1,979,74 lbs.

Annual PM in Grams = $(PM \times Annual \ Hours) \times Horsepower$ 22,470g = $(.10 \times 749) \times 300$ Annual PM in Grams ÷ Grams to Lbs. conversion factor = Annual PM in Lbs. 22,470g ÷ 454 = 49.49 lbs.

Total Emissions Per Year Old	Valuation
ROG:	643.41 lbs.
NOx:	1,979.74 lbs.
PM:	49.49 lbs.
Total Emissions:	2672.64 lbs

New Vehicle Emissions Calculation

Annual NMHC (ROG) in Grams = $(NMHC \times Annual \text{ Hours}) \times Horsepower$ 4.494g = $(.02 \times 749) \times 300$

Annual NMHC (ROG) in Grams + Grams to Lbs. conversion factor + Annual NMHC in lbs. 4,494g + 454 = 8.97lbs.

Annual NOx in Grams = $(NOx \times Annual \text{ Hours}) \times \text{Horsepower}$ 35.952g = $(.16 \times 749) \times 300$ Annual NOx in Grams = Grams to Lbs. conversion factor = Annual NOx in lbs. 35.952g + 454 = 71.79 lbs.

Annual PM in Grams = (PM x Annual Hours) x Horsepower

224.7g = (.001 x 749) x 300

Annual PM in Grams ÷ Grams to Lbs. conversion factor = Annual PM in lbs.

224.7g ÷ 454 = .45lbs.

ROG:	8.97 lbs.
NOx:	71.79 lbs.
PM:	.45 lbs.



Tahoe Truckee Unified School District

Emissions Benefits/Cost Effectiveness (continued)

BOC:	634.44 lbs
ROG:	1,907.95 lbs
NOx:	
PM:	49.04 lbs
Total Emissions Reduction:	2,591.43 lbs

Cost Effectiveness/ Capitol Recovery

Penis 1 Co 1	
AB 2766 Funds:	\$165,000.00
TTUSD Contribution:	\$24,090.78
Total cost of Project:	\$189,090.78

To calculate the cost effectiveness of this project the amount of funds requested will be multiplied by the capitol recovery factor of .08 and then divided by the total amount of pollutants reduced. The capitol recovery factor of .08 is used because the minimum useful life of the vehicle to be purchased it 15 years.

(AB 2766 Funds x Capitol recovery Factor) + Total emission reduction = Cost per Pound (165,000.00 x .08) ÷ 2591.43 = 5.09

Totals

AB Funds Requested: \$165,000.00

Emissions Reduced: 2591.43 lbs.

Cost Per Pound Reduced: \$5.09

Work Statement

January 2020 Upon grant execution, TTUSD will begin the process to have the purchase of a new bus approved by TTUSD school board.

February 2020

Place order with Buswest for one new school bus.

July 2020 On or before July 2020, take delivery of one new school bus. Once delivered TTUSD will invite NSAQMD to inspect the bus and a decal stating the funding source for the bus will be applied at this time.

Funding Request/Breakdown of Cost

Tahoe Truckee Unified School District is requesting \$165,000.00 in AB 2766 funds to purchase a new 2019 school bus. The specifications and quote are attached in the technical appendices. This project does not have any administrative costs. The following table shows a breakdown of cost and cofounding sources.

AB 2766 Funds.	\$165,000.00
TTUSD Contribution:	\$24,090.78
Total cost of Project:	\$189,090.78

Schedule of Deliverables/Monitoring Program

Vehicle Delivery On or before July 2020 TTUSD will take delivery of one new school bus. Once delivered TTUSD will invite NSAQMD to inspect the bus and a decal stating the funding source for the bus will be applied at this time. Any delay in delivery of the new school bus will be communicated to NSAQMD via email.

Monitoring Program

Upon delivery of the new bus TTUSD will start to track the annual operating hours and mileage. TTUSD will report the mileage, hours and overall performance of the unit after the first, fifth and seventh year of operation. TTUSD will operate the new vehicle, at minimum, the same number of hours and miles as the vehicle it was intended to replace. Reports of operating data will be available at the request of the NSAQMD.

Technical Appendices

Table of Contents	Page
Annual hour meter report for bus to be replaced	ii
Buswest Sales Quote	iii
New Vehicle Engine Executive Order	iv
Old Vehicle Engine Executive Order	vi

Tahoe Truckee Unified School District

Low NOx School Bus Replacement

Annual hour meter report for bus to be replaced

GROZOV

GPS Engine Hours Summary Report - From: 6/20/2018 To: 6/20/2019

	Noto: Th	is Report Requires GPS F	innivere Version 2.94 or Newer	r	}
ASSET	FIRST POWER ON	LAST POWER OFF	ZONE	ENDING HOUR METER	ELAPSED HOURS
↑	08/20/2018 07/38:33	QW20/2019 12:12:58	Cambined Totals	2873.4	749.6

Bus West Sales Quote





Bid Form

March 18, 2019

Customer Order No.: SBBH 07303

Honorable Board of Trustees Tahoe Truckee Unified School District 12485 Joarger Dr Truckee, Ca 96161

BustWest respectfully submits for your consideration our bid to supply 1 complete 84 passenger school bus as follows:

Chassis Make: Thomas

Model: CHSY

Model Year: 2019

Wheelbase: 277"

Engine: Cummins ISL

Horsepower: 300

Body Make: Thomas

Model: Saf-T-Liner HDX

Capacity: 84

Transmission: Alison 3000 PTS R

Delivery Date: 180-210 Days after receipt of order

Subject to Prior Sale: No

Cosh Purchase Price (each)

\$ 174,605.00

Doc Fee: Sales Tex @: 8 250% 65.00 14,410.28

CA. Tire Tax: \$1.75 ea. tire

\$ 14,410.28 \$ 10.50 \$ 189,090,78

Total

We have examined the detailed minimum specifications established by the school board and guarantee this bid to be in accordance thereto. Above price includes all dealer prep. pre-delivery service, necessary lettering, F.O.B. school district and documentation fee.

Brian Hedman, Sales Representative

Quote is good for thirty (30) days

Quote No.: 341093

Carren - Main Hendquarters 11107 South Chico St. Curson, CA. 90745 Sales Toll Fren. (850) 452-9169 Main. (310) 984-3990 Free. (310) 984-3996 Parts Toll Fren. (866) 707-7800 Free. (310) 984-3994

www business com

Sacrumento 210 March East St., Woodland, CA. 95776 Man. (424) 210-5020 Presso

4337 North Goldenstein Stew 101, Pressn., CA. 91609 Man. (559) 277-0118

New Vehicle Engine Executive Order

	CUICAINS INC.	EXECUTIVE ORDER A-021-0808 New On-Road Heavy Duty Engines Page 1 of 2 Pages
CALIFORNIA	- W-80	District 26 Part 5 Checter 2:

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G 14-012.

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which cartification is granted.

		ENCHEE (L)	FUEL TYPE	STANDARDS INTERES BYENT PROCEDURE CLASS	I THOU YE CAN SEM YERLY	SC. OBD(S)
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Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8;
2) the SET and NTE limits under the applicable Celifornia exhaust emission standards and test procedures for heavycuty diseal engines and vehicles (Test Procedures), and 3) the corresponding certification levels, for this engine family.
"Dissel" CO, SET and NTE certification compliance may have been demonstrated by the manufacturer as provided
under the applicable Test Procedures in lieu of testing. (For leading and dust-used engines, the CERT values in brooks () are those values for default operation permitted in 13 CCR 1956 8 are in
permitted as powernitance test fuel. For musti-habit engines, the STD and CERT values for default operation permitted in 13 CCR 1956 8 are in

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BE IT FURTHER RESOLVED: The manufacturer has demonstrated compliance with the Greenhouse Gas Endusion Standards as specified in TWe 13 CCR 1956.8 and the Incorporated "Cultifornia Endusid Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy Duty Dissed-Engines and Vehicles" (HDDE Test Procedures) adopted Dec. 2002, as less emended Oct. 21, 2014 using the 2014 model year National Heavy-Duty Engine and Vehicle Greenhouse Case Program as specified in Section 1036.108 of the HDDE Test Procedures. The manufacturer has submitted the required information and therefore has met the critario recessary to receive a Cultionia Executive Order based on the Emfronmental Protection Agency's Certificate of Conformity for the above listed engine tamity.

	EPA SURTUNCATE OF COMPOSURTY		PRIMARY INTERNED ECONOCI CLAIR TRACTOLIVE ANDRE.	
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ng-tor D L L	645	48	0,10	0.10
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	570 541	\$14 400	O.C.	0.07

BE IT FURTHER RESOLVED: Certification to the FEL(s) / FCL(s) tisted above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) / FCL(s) is the emission level declared by the manufacturer and serves in Seu of an emission standard for certification purposes in any averaging, benting, or tracing (AST) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

New Vehicle Engine Executive Order

CALIFORNIA CUMMINS INC. EXECUTIVE ORDER ACM 6005
Stor Co-Road Heavy Both England
Page 201 Faces

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(e)(6)(8), original in this engine (amily curtified under 13 CCR 1956.8(e)(6)(C) [30 g/hr NOvig and section 35.8.4 of the incorporated "California Exchaust Embasions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Discal Enginee and Vehicles" (HDDE Test Procedures) adopted Dec. 12, 2002, as test amended Oct. 21, 2014, shall be provided with an approved "Certified Clean Idie" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER REBOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate cartification compliance with 13 CCR 1986 (emission control labels), 13 CCR 1971.1 (on-board diagnostic, full or partial compliance) and 13 CCR 2036 at seq. (emission control warranty).

BE IT FURTHER RESOLVED: That the manufacturer has elected to include engine models in this engine family which are identified for "emergency vehicle use only". These "emergency vehicle use only" engines are exempt from requirements imposed pursuant to California law and the regulations adopted pursuant thereto for motor vehicle politition control devices per California Vehicle Code Section 27/156 2. The manufacturer must clearly label these engines for "emergency vehicle use only" on the engines' emission control label.

BE IT FURTHER RESOLVED: The field engine models are conditionally certified in accordance with 13 CCR Section 1971.1(k) (deficiency and finee provisions for certification of melfunction and diagnostic system) because the heavy-duty on-board diagnostic (HD OBD) system of the listed engine models has been determined to have nineteen deficiencies in the listed engine family that is produced and detivered for sale in Celifornia. On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of engines produced and delivered for sale in Celifornia and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposil in the Air Pollution Control Fund no later than thirty querterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question in which case all engines covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$5000 per engine pursuant to HSC Section 4315.

Engines certified under this Executive Order must conform to all applicable California emission regulations

The Bureau of Automotive Repair will be notified by copy of this Executive Order

Executed at El Monte, Cellfornia on this ________ day

Annette Hebert, Chief

Emissions Comphance Automotive Regulations and Science Division

Tahoe Truckee Unified School District

Old Vehicle Engine Executive Order

IPes 1 of 21

State of Colifornia OUR RESOURCES COME

STREET, AS DESCRIPTION OF THE PROPERTY OF THE

Relating to Certification of the Newsy-Date Englock and Wohleins

ERFLOPELIZA, INC.

Furnish to the authority verted in the fir Septences Seard of Sections 43189.

Personnel to the authority rested in the sederal good at Sections 38515 and 38516 of the Health and Selety Lade and Consulpse Green 5-95-9; and

Pursuant to the Domintor 15, 1996 Settlement Parachest between the directions to the Settlement like. Jobs and destrois to the Settlement Aprilement :

IT IS CODERED AND RESOLVED: That the dobborous 1999 motor-page takerpattar, inc. diesel engines are considire for ese as obter ashering while a new later of second later is gross rehicle wilght-rating (dept) near 18,000 excepts:

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Old Vehicle Engine Executive Order

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"FTP"	0.64	1.2	3.8	0.08
"EURO 111"	0.4		4.8	0.07

BE IT FURTHER RESOLUTED: That for the firsted engine models, the assurance has exhalited the materials to demonstrate early fixed the compliance with the Board's equiquies updated against correspond processions (Title 13, California Cada of Regulations., Sections 2009 of seq. 7.

of it further resulted: That the aforemetioned engine facily has been conditionally conditions;

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The Settlement Agreement to to effect.
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day of December 1995.

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EXHIBIT SUMMARY SHEET

Page 1

Proposing Entity (include our	ier participating cut	nues):			
McGarr Excavation Inc.					
Contact Person: Tyler O. Me	:Garr				
Address: 5941 County Road	A-15 PO Box 883	Portola CA 961	12		
Phone #: 530-832-5959	FAX	f: 530-832-4587	EMAIL: mcgarrt@yai	hoo.com	
Total Project Budget:	AB 2766 Funds	Co-Funding	Total Project	Costs	
Capital Costs	<u>\$ 70,000</u>	<u>\$ 75000</u>	<u>\$ 145000</u>		
Operating Costs	\$	<u>\$ 3500</u>	<u>\$ 3500</u>		
TOTAL	\$ 70000	\$ 75000	<u>\$ 148500</u>		
Type of Project: (check of	one)				
<u>X</u> Quantifiab	ole Project				
Reduced I	Emission Vehicles I	Project			
Implementation Area for	Project: Check	k if District-wide	<u> </u>		
•			city, county, region).		
Estimated Emission Red	uctions:				
A. Emission Reduction	ons (lbs/yr)				
Reactive Organic	Gases 29.07 Nitro	ogen Oxides <u>847.</u>	58 PM ₁₀ <u>0</u>		
B. Vehicle Miles Tra	veled (VMT) Redu	ced0	grand and the state of the stat	ECTESUY	13.
Single Occupancy	Vehicle Trips Red	uced	0	AUG 2 7 2019	
C. Number of people	reached per day th	rough public edu	cation 0	The state of the s	
Cost-effectiveness:	\$ 17.57	er pound (AB 2	766 Funds Only)	es established	
Brief Project Description	n:				
Peterbilt 367, new engir	ne: X-15 485 @18	355.	luty class 8 truck with		
Remove Existin	g Dump box on 1	998 Truck and I	install on New truck.	Project	
would reduce Emission	s and contribute to) Offer Procest acou	wity.	1	

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REQUEST FOR PROPOSAL CONTENTS CHECKLIST

Page 2

Applicant: <u>M</u>	CGARR Excavation Inc. Tyler O. McGart	
Please complete	and attach this checklist with your application.	
х	Exhibit Summary Sheet - page1	
x	Request for Proposal Contents Checklist - page2	
x	Authorization Letter/Resolution - page3	
х	Project Description - page4	
х	Project Organization/Background - page5	
х	Emissions Benefits/Cost-Effectiveness - page6	
х	Work Statement - page7	
x	Funding Request/Breakdown of Cost - page8	
x	Schedule of Deliverables/Monitoring - page9	
×	All Pages Numbered	
х	Three Copies Of Proposal Plus One Original	
-	(CHECK ONE ONLY)	
x	Quantifiable Project	
	- OR -	
	Reduced Emission Vehicles Project	

McGarr Excavation Inc. 5941 County Road A-15 PO Box 883 Portola, Ca 96122 530-832-5959 Uc.746805

RE: Authorization Letter

To Whom it may Concern:

McGarr Excavation Inc. and officers within, authorize Tyler O. McGarr to act on behalf of McGarr Excavation regarding AB2766 DMV Surcharge program. As shown below with respected signatures.

Contact information; AB2766 Project

Tyler O. McGarr PO 80x 883 Portola, Ca 96122 C: 530-249-2848

Ronald Philip McGarr

President

Tyler O. McGarr

Vice President

McGarr Excavation Inc. 5941 County Road A-15 PO Box 883 Portola, Ca 96122 Lic.746805

Project Description: Replacement of heavy-duty class 8 diesel truck

Project would consist of replacing our existing Heavy-Duty Class 8 Truck (See Below) with a new Heavy-duty Class 8 Truck (See Below) this would reduce Emissions first and foremost and also help our small Business contribute to our local Economy. Our existing truck was Placed on LOW USE (under 1000 Miles per year) in order to comply with restrictions causing hardship to our Business and making it hard to serv our Customer base. Existing Truck described within this Document Travels approximately 20k miles + per year and is used for onsite work as well in our Business. Our number one objective is to help reduce emissions in our local area, and comply with restrictions to heavy duty truck regulations.

Existing Truck; 1998 Kenworth T-800 1997 Model Year Engine C-12 Cat 440 HP @ 1600RPM

Replacement Truck; 2020 Peterbilt 367 Engine: Cummins X-15 485 @ 1855

Scope of Work;

- 1. Order New Cab and Chasse Truck
- 2. Remove Existing Dump Box from 1998 T-800
- 3. Place box on New Peterbilt 367

6

McGarr Excavation Inc. 5941 County Road A-15 PO Box 883 Portola, Ca 96122 Lic.746805

Project Organization/Background:

McGarr Excavation began conducting business in 1996, We operate in Plumas, Nevada and Sierra Counties. Our reputation for Quality work has grown our small business into what it is today; three full time field employees and two part time office employees that handle all the accounting, Certified payroll, Job Cost tracking and more. McGarr Excavation completes most equipment repairs in house and will outsource all other items to our dealer or our local mechanic. Our Company has Completed similar Projects with great Success; one of those projects was installing a new water tank on a truck chassis, another recent similar project that has been completed; In 2015 we Purchased a new Class 8 heavy duty truck that was ordered from dealer and spec'd out by Tyler McGarr. We our Doing our best to reduce emissions by purchasing the best equipment that we can possibly afford. This project Funding from AB 2766 DMV Would allow us to once again keep up with emission reduction and help our local economy by providing us the opportunity to hire a driver and also at minimum be more efficient for our existing customers.

No Sub contractors will be used in this project.

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Niles per year 20000 Average Trip Ends	Old Engine NOx g/mile 20.44 g/trip end	g/year 408800 g/year	lbs/year 900.44 lbs/year	Miles per year 20000 Average Trip Ends 0	New Engine NOx g/mile 1.2 g/trip end 0	g/year 24000 g/year 0	lbs/year 52.86 lbs/year 0.00
0	0 Totals:	408800	900.44	And the second by the second b	Totals:	24000 384800	52.86 847.58
Miles per year 20000 Average Trip Ends	g/mile g/year 0 0 g/trip end g/year 0 0 Totals: 0	0	lbs/year 0.00 lbs/year	Miles per year 20000 Average Trip Ends	PM g/mile 0 g/trip end 0	g/year O g/year O	lbs/year 0.00 lbs/year 0.00
0			0.00	1	Totals:	0	0.00
Miles per year 20000 Average Trip Ends	ROG g/mile 0.76 g/trip end	g/year 15200 g/year 0	lbs/year 33.480 lbs/year 0.000	Miles per year 20000 Average Trip Ends 0	0	g/year 2000 g/year 0	1bs/year 4.41 1bs/year 0.00
0	Totals	SOUTH BEAUTIFUL FOR	33.48	71	Totals:	2000	29.07
40-1-1-1-1-1-1-1	areas and with the second				Total Savings:	8/Aest.	lbs/year 877

Grant Award Requested: \$ 70,000.00 for 5 years Capital Recovery Factor: 0.22

> per pound Cost Effectiveness: \$ 17.57

Emission factors obtained from Table 5 Statewide 2017 On-Road Emission Factors for Heavy-Duty Cleaner Vehicle Projects See Air District website http://myairdistrict.com/wp-content/uploads/2018/09/Emission-Factor Tobles-March-2018.pdf

Capitol Recover Factors 1.03 1 year 0.35 3 years 0.22 5 years

7 years

0.12 10 years 0.10 12 years 80.0 15 years 0.07 20 years

0.16

TABÉ 6

McGarr Excavation Inc. 5941 County Road A-15

PO Box 883

Portola, Ca 96122

Lic.746805

Work Statement:

Item 1;

January 5 2020

Awarded Contract, Place order for Truck from Reno Peterbilt Heavy-Duty class 8 Truck.

Item 2;

April 1 2020

Receive New Truck from Dealer.

Item 3;

May 30 2020

Remove Dump Box from existing truck and place on replacement truck, preform work in McGarr Excavation Shop by Qualified individual(s) Employees and Owners to complete

item 4;

June 4 2020

Place Truck in Service.

Add Logo to Truck of Funding AB 2766 DMV

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st/Breakdown of Cost:

70000	Portola, Ca 96122 Administrative Cost 0	Install Dump Box 0	avation inc. Purchase Truck	Table ONE Tack. AB2766 DMV Funds Co Funding Mo
75000	0	0	75000	unds Co Funding Monetary
3500	1000	2500	c	in Kind Funding Tot
Tegour	1000	2500	Telanco	tal Cost of Task

Table TWO
Equipment List
1. New Peterbuilt 367

Engine; Cummins X-15 485 @ 1855

Funding of AB2766 70000

McGarr Excavation Inc. 5941 County Road A-15 PO Box 883 Portola, Ca 96122 Lic.746805

Prefest Schedule & Time Line

2020 Jan	Project Award. Place Order for New Truck.	2020 Feb	Truck Build Time	2020 Mar	Truck Build Time
2020 Apr	Receive Truck.	2020 May	Place Dump Box on New Truck.	2020 Jun	Place Truck into Service

SEP - 4 2019

EXHIBIT SUMMARY SHEET

Proposing Entity (include other participating entities): County of Nevada's Health and Hu	man
Services Agency (HHSA) and Information and General Services Department (IGS).	

Contact Person:

Ryan Gruver

Address:

950 Maidu Avc, Nevada City, CA 95959

Phone #: (530) 265-1559 FAX #: (530) 265-7226

EMAIL: ryan.gruver@co.nevada.ca.us

Total Project Budget:

	AB 2766 Funds	Co-Funding	Total Project Costs
Capital Costs	\$ 21,196	<u>\$</u>	\$ 20,000
Operating Costs	<u>\$0</u>	\$ 8,804	\$ 10,000
TOTAL	\$ 21,196	<u>\$ 8,804</u>	\$ 30,000

Type of Project: (check one)

Quantifiable Project

Reduced Emission Vehicles Project

Implementation Area for Project:

Check if District-wide

Describe the Implementation Area for the Project (city, county, region): Nevada County

Estimated Emission Reductions:

A. Emission Reductions (lbs/yr)

Reactive Organic Gases: 54.59

Nitrogen Oxides: 49.96

PM 22.19

B. Vehicle Miles Traveled (VMT) Reduced:

<u>189,768</u>

Single Occupancy Vehicle Trips Reduced:

2,989

C. Number of people reached per day through public education: 0

Cost-effectiveness:

\$ 36.79 per pound (AB 2766 Funds Only)

Brief Project Description:

The County of Nevada proposes to use AB 2766 grant funds to leverage current County network infrastructure and today's new video conferencing technology to enable a broad range of county workers to stay in their offices for meetings and trainings, eliminating multiple office trips each week between County facilities and reducing air pollution.

B. REQUEST FOR PROPOSAL CONTENTS CHECKLIST

A policont: Nevada	County Health and Human Services Agency
	d attach this checklist with your application.
$\overline{\mathbf{A}}$	Exhibit Summary Sheet - page 1
\checkmark	Request for Proposal Contents Checklist - page 2
V	Authorization Letter/Resolution - page 3
V	Project Description – pages <u>4-6</u>
1	Project Organization/Background - page 6
1	Emissions Benefits/Cost-Effectiveness - pages 7-8
V	Work Statement - pages <u>9-10</u>
✓	Funding Request/Breakdown of Cost - pages 10-11
✓	Schedule of Deliverables/Monitoring - pages 12
✓	All Pages Numbered
✓	Three Copies Of Proposal Plus One Original
	(CHECK ONE ONLY)
1	Quantifiable Project
	- OR - Reduced Emission Vehicles Project



County of Nevada County Executive Office

Eric Rood Administrative Center 950 Maidu Avenue Nevada City, CA 95959 Phone: (530) 265 – 7040 Fax: (530) 265-9839 Email: ceo@co.nevada.ca.us

August 12, 2019

Northern Sierra Air Quality Management District Attn: Joseph Fish 200 Litton Drive, Suite. 320 Grass Valley, CA 95945

<u>SUBJECT</u>: Authorization for the Nevada County Health & Human Services Agency to submit a formal grant proposal for the use of AB 2766 DMV Surcharge funds for the 2019-2020 grant project cycle on behalf of the County of Nevada.

BACKGROUND: Nevada County Health & Human Services Agency in a joint project with the Nevada County Information & General Services Department to submit a formal grant proposal to implement and upgrade their ability to conduct video conferencing. Video conferencing equipment is projected to have a life-span of 5 years and will reduce interagency trip traffic from County offices. Improving this ability will have a substantial impact in the reduction of vehicle miles traveled, fleet costs and associated emissions. The formal grant proposal that is being submitted equates to a \$30,000 project with a request of \$21,196 in AB 2766 funding and \$8,804 in co-funding.

<u>AUTHORIZATION:</u> I hereby authorize, on behalf of the Board of Supervisors of the County of Nevada, the submittal of Nevada County HHSA's formal grant proposal to NSAQMD for the use of 2766 DMV Surcharge Funds for the 2019-2020 grant project cycle.

Alison Lehman

County Executive Officer

County of Nevada

Contact information for Nevada County is listed below:

David Jones

Nevada County Executive Office

(530) 470-2720

David.jones2@co.nevada.ca.us

PROJECT DESCRIPTION D.

The County of Nevada proposes to use AB 2766 grant funds to leverage current County network infrastructure and today's new video conferencing technology to enable a broad range of county workers to stay in their offices for meetings and trainings, eliminating multiple office trips each week between County facilities and reducing air pollution.

This proposal of grant funding covers the procurement of 3 (three) Polycom video conferencing units accompanied with 2 (two) Flat Screen Televisions, and 1 (one) Computer Monitor with supplementary wall mounting and cabling equipment. Contracts associated with the successful implementation of this project includes 3 (three) Polycom Real Connect Licenses as well as PC build/install vendor technical assistance, network cabling and the addition of 1 (one) Power Outlets. Proposal assumes labor involving setup and install of equipment through a Network Analyst at a total budget of \$8,804 will be charged to grant funds. The County of Nevada will provide \$10,000 of matching funds based on Desktop Technician Technical Assistance, Facilities Maintenance, and Project Management/Successful Implementation of the project.

Nevada County will be using the California Air Resources Board's Methods to find the Cost-Effectiveness of Funding Air Quality Projects, Telecommunications section to determine the amount of emissions that will be reduced by the eliminated trips to County Offices.

The main objective for this project is to keep county workers in their home base offices during the work day, eliminating the many time wasting and air polluting trips they make every day between their regular work office locations to meetings and trainings in other county buildings.

This project will prove and measure accessibility, efficiency, effectiveness, and raise employee productivity by decreasing workers' overall travel time logged on a daily basis and will reduce air pollution based on the resulting office trip eliminations. A wide range of county workers across the organization will partake in the project including all of Health and Human Services staff, particularly those that work in the Truckee office.

This represents a portion of total county workers that will ultimately benefit from the ability to stay in the office and attend meetings and trainings virtually from their own home office building location.

Some of the functions and activities that this project will allow the workers to perform from their own building location rather than travel to other locations include:

- Weekly and monthly staff meetings
- Department wide training sessions
- County wide training and informational sessions



- Enhanced mobile communication services for video conferencing, voice calling and conferencing,
- Enhanced presentation and data sharing capability
- Screen sharing between locations

You will see below that this project stands on its own feet for the cost effectiveness requirement, however the real exponential value and pollution savings will be realized in the years after the project is completed and the enhanced video conferencing technology is expanded out to more county conference and meeting rooms. The first year will also save the County in fuel/fleet costs which will grow and continue forward annually. A very easily achievable increase of the remote video conference enabled workers would cut this cost. In addition, many of the video conferencing solutions could also be leveraged for a stay at home remote-worker program if the county desired.

Scope of Work

The County currently has outdated video conferencing (VC) systems and infrastructure that current workers utilize on a daily basis. These systems requires the Information and General Services staff to troubleshoot on a frequent basis. The VC units are over 10 years old and do not have the latest technology and do not support high definition, screen sharing, telepresence, multiway conferencing, data sharing and mobile video conferencing. They are currently limited in the number of callers to the conference. This project will perform the following activities.

- 1. Scope and design VC solutions leveraging existing infrastructure.
- 2. Procure required VC hardware, software and training.
- 3. Implement, document, and train workers, and deploy the VC solutions.
- 4. Gain feedback from workers, and track travel saving activity.
- 5. Assist departments to expand use of the VC equipment, which could include meetings with people outside the County, or work from home.

AB 2766 Funds

AB 2766 funds will be used to purchase the required equipment, services, and software as described above. The County will provide in kind and further funding through the IT and HHSA staff time to perform the business analysis, design VC solutions, researching equipment to be purchased, configuring and deploying equipment, and training workers on the solutions. The County will also networking infrastructure add new networking capabilities as required to meet the VC solution needs.

Co-Funding

The County will use existing networking infrastructure and enhance, expand and improve as needed. Staff time will be covered by the County for HHSA and IGS staff. Some equipment in smaller conference rooms will be purchase with county funding as required.



E. PROJECT ORGANIZATION/BACKGROUND

Staff from Health and Human Services Agency (HHSA) and Information and General Services Department (IGS) will be working cooperatively on this project. Each staff member will bring his or her expertise to the project. Program Managers in each agency and/or department will be providing direct supervision for successful completion of this project.

Health and Human Services Agency (HHSA) consists of multiple departments. This includes Behavioral Health, Child Support Services, Collections, Housing & Community Services, Public Health, Social Services, and Veterans' Services. The agency provides a broad range of health and social services that promote the wellness, self-sufficiency, and safety of Nevada County residents. As the largest agency within the County of Nevada, agency operational areas are located throughout the county causing a needed utilization of virtual meetings.

HHSA staff have analyzed and determined the most effective use of conference room equipment. Staff has also tracked office trip activity and miles traveled. Data was then analyzed for project effectiveness. HHSA staff will therefore prepare the estimates of emissions reductions for this proposal and the reporting. Expenditures of grant funds and in-kind funds will be tracked in our accounting system *Pentamation Finance Plus*.

Pentamation allows the HHSA Fiscal Unit to track expenditures by projects. We can track expenditures of both the grant and the in-kind funds easily using unique project code numbers. We will also use Microsoft Excel to present the financial data in the required grant finance reports.

Information and General Services (IGS) Department is a centralized department that provides support to the County's computer network infrastructure, server applications, desktop software, Intranet, and phones. IGS staff members will manage, direct and implement changes necessary to the County's computer systems to support this project.

Likewise, IGS staff have analyzed and determined necessary components in implementing video conferencing equipment. Through the duration of the project IGS staff will ensure all site preparation, power supply compatibility requirements and other specified service prerequisites are met. In addition IGS Staff will provide related settings information (IP setting etc.) and ensure workable video conferencing solutions. This scope will also include the physical mounting facilities if necessary (eg rack space, screws), LAN nodes, cabling facilities & power sockets etc. During implementation detailed information pertaining to installation, training, and troubleshooting will be relayed to HHSA staff.



F. EMISSION BENEFIT/COST EFFECTIVENESS

Project Assumptions

Formulas used to calculate the estimated emission reductions from the project, and the related factor tables, are taken from the California Air Resources Board (ARB) "Methods to Find the Cost-Effectiveness of Funding Air Quality Projects". The same source is used to determine the cost-effectiveness of the project.

Estimates of mileage reduction factors come from data gathered for previous NSAQMD grant projects. Emission Factor Inputs are based on Table 3 Average Auto Emission Factors data pertaining to ROG, NOx, and PM10. Other factors are from department records of conference room calendared activities along with location designations.

The county is geographically divided into western and eastern portions by the natural divide of the Sierra Nevada Mountains. The western, more populace portion, centers on the Nevada City/Grass Valley urban area while the eastern portion is centered on the Town of Truckee. For purposes of this analysis, we have divided the county into these two portions with the Sierra Nevada point of Donner Summit as the dividing line. This allows us to apply longer travel distances (60 miles) to the eastern portion and significantly lower travel distances (6 miles) to the western portion.

To allocate the number of visits equitably, staff used actual conference room data from the previous year in order to project reductions in vehicle trips and miles traveled. This equated to 52% of visits attributed to the western portion of the county while 48% of the visits were attributed to the eastern portion of the county.

Emissions Summary

Western	Region	Summary:

n estern Region Bunnay.	
Average miles per trip:	6
Vehicle trips reduced (one-way):	1,564
Vehicle trips reduced (round trip/annual):	3,128
Total vehicle miles traveled reductions (one-way):	9,384
Total vehicle miles traveled reductions (round trip/annual):	18,768
Eastern Region Summary:	10,700
Average miles per trip:	60
Vehicle trips reduced (one-way):	1,425
Vehicle trips reduced (round trip/annual):	2,850
Total vehicle miles traveled reductions (one-way):	85,500
Total vehicle miles traveled reductions (round trip/annual):	171,000
Total Summary	171,000
Average miles per trip:	21 7444
Vehicle trips reduced (one-way):	31.7444
Vehicle trips reduced (round trip/annual):	2,989
	5,978
Total vehicle miles traveled reductions (one-way):	94,884
Total vehicle miles traveled reductions (round trip/annual):	189,768
Annual Emission Reduction - ROG (lbs/year):	54.59
Annual Emission Reduction - NOx (lbs/year):	49.96

Annual Emission Reduction - PM10 (lbs/year):	22.19 126.73
Total Emissions Reductions: Cost-effectiveness of Fund Dollars (\$/lb)	\$36.79

Calculation

The below chart reflects formulas, inputs, outcomes and calculations which provided the basis of the emissions summary and data provided within this grant application.

NSAQMD A	AB	2766	Grant
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	NSAQMD	Grant Name:	PHSA Videoconferencing
funding		Capitol Recover Fac	1.03
	21,196.00	l yr	0.35
nt Funding Amount Kind Funding amount	8.804.00	3 yrs	0.33
tal Project Funding amount	30,000.00	5 yrs	
Factors	PERSONAL PROPERTY.	7 yrs	0.16
Pactors		10 yrs	0.12
Effectiveness Period (LIFE)	5.00	12 yrs	0.10
		15 yrs	0.08
Capital Recovery Factor	0.22	20 yrs	0.07
The second secon	Wes	stern County	NAME OF TAXABLE PARTY.
14th and from many)	600	Annual limission Reduction - ROG (lbs/yr)	7.45
verage Miles per trip (one-way)	1 564 00	Annual Emission Reduction - NOx (lbs/yr)	5.92
one Way Vehicle Trip Reductions per yr	3,128.00	Annual Emission Reduction - I'M (lbs/yr)	2.21
annual Vehicle Reductions per yr	9.384.00		15.58
One Way Miles travelled	18.768.00	Total Emissions reduction (All) (lbs/yr)	13,30
Annual Miles travelled, round trips	Sa.	tern County	
	C0.00	Annual Emission Reduction - ROG (lbs/yr	47.13
\ erage Miles per trip (one-way)	The second liverage and the se	- 1 1/2 - 19ha ha ah	44.04
One Way Vehicle Trip Reductions per yr	1,425.00	Annual Emission Reduction - PM (lbs/yr)	19.98
Annual Vehicle Reductions per yr	2,850.00		111.15
2- Mar belles repolled	85,500,00	Total Emissions reduction (All) (lbs/yr)	111.15
Annual Miles travelled, round trips	A CONTRACTOR OF THE PERSON NAMED IN		
		Annual Emission Reduction - ROG (lbs/y)	54.59
Averago Miles per trip (one-way)	The second secon	The state of the s	
One Way Vahicle Trip Reductions per yr.	2,989,00	ma a stheadard	
Annual Vehicle Reductions per yr	5,978.00	Annual Emission Reduction - PM (lbs/yr)	
Clear Way Miles trevelled	94,884.00		126.73
The second second	189,768.00		
		Data Cathered From CARB March 20	IR I Indate Table #3
ROG-Average Trip ends (g/trip end)	0.368	Data Cathered From CARB March 20	R Lindate Table #3
ROG - Auto VMT factor (grams/mile)	0.119	Data Cathered From CARB Wilten 201	18 I InduteTable #1
NOx - A verage Trip ends (g/trip end)	0.175	Data Cathered From CARB March 20	to the described #2
NOx - Auto VMT factor (grams/mile)	0.114	Data Cathered From CARB March 20	Is Openie Laber #3
NOX- Auto vivi i memi (standariana)	0.003	Data Gathered From CARB March 20	18 Update 1 abie #3
PM - Average Trip ends (g/trip end)	0.053	Data Cathered From CARB March 20	18 Update Tuble #3
PM - VMT factor (grams/mile)	A	The state of the s	
	Ares ages	Formula: 1(189.768 Annual Milas Travels	4 º 0.119 ROG VMT Pactor
Annual Lansson Reduction - ROO (lbs/) r	54.59	(5,978 Annual Trips Reduced * 0 368 RO	A O 114 NOx VMT Fector
Annual Emission Reduction - NOx (lbs/yr	49.96	Formula [(189,768 Annual Milus Fravelo (5,978 Annual Trips Reduced * 0.175 NO: Formula [(189,768 Annual Milus Travelo	X WAGINGS 11th Cumit 414
Annual Emission Reduction - PM (lbs/yr	22.19	Formula ((189,768 Annual Miles Travelo (5,978 Annual Trips Reduced * 0,003 PM	Average Trip Ends) 454
TO THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		Emissions Factors	TEACH SHIP SHIP
Total Emissions reduction (All) (lbs/yr)	126.7	Formula 54.59 ROG flas per yr + 49.96 F	
Cost-Effectiveness of Funding Dollars		Formula 1 22 Copital Recovery Factor	\$32,000 Grant Funding 2 19 PM)

G. WORK STATEMENT

During the pre-screening portion of this grant staff conduced a business analysis of current processes, procedures and meeting trip activities. This analysis provided the basis of data calculated in the Emissions Summary as it pertains to trips and mileage to and from meetings. Additionally this analysis provided insight to our standard operating procedures and an implementation plan was formed to reduce vehicle miles traveled and associated emissions reductions for inter-office meetings. Implementation of this plan hinges on the need of video conferencing equipment in multiple locations throughout the County.

As a secondary result of this business analysis, IGS staff created an inventory list to determine where equipment is most needed as well as listed products and services that support high definition, screen sharing, telepresence, multiway conferencing, data sharing and mobile video conferencing. Purchased equipment will include; Polycom systems, screens, mounts, cables and software. Additional details pertaining to the purchased equipment are found below as scope of video conferencing needs have now been defined.

<u>PURCHASE OF VIDEO CONFERENCING RELATED EQUIPMENT AND SOFTWARE, FOR PROJECT USE</u>

- 1. Purchase of Polycom systems, screens, mounts, cables and software for video conferencing.
- 2. Purchase software to be used for video conferencing.

IGS Staff will request purchase orders from the County Purchasing Department to purchase video conferencing equipment and software.

INSTALLATION OF VIDEO CONFERENCING RELATED EQUIPMENT AND SOFTWARE

- 1. Installation of video conferencing equipment
- 2. Installation of software on video conferencing equipment

IGS Staff will install the products and services that support high definition, screen sharing, telepresence, and multiway conferencing, data sharing and mobile video conferencing.

REVIEW AND IMPLEMENTATION OF PROCESSES FOR VIDEO CONFRENCING

- Conduct quality assurance on functioning video conferencing equipment and software.
- Promote video conferencing ability through HHSA staff training.
- 3. HHSA policy implementation for video conferencing and vehicle usage.

HHSA and IGS Staff will ensure proper troubleshooting and training has been conducted to increase the number of meetings provided by video conferencing thus reducing vehicle miles traveled and associated emissions.



MONITORING AND EVALUATING THE PROGRAM

- 1. Review and submittal of financial requirements per NSAQMD agreement requirements.
- 2. Review of conference room calendared activities.
 - a. Review of video conferencing meetings.
 - b. Review of meetings where video conferencing was not utilized
- 3. Generation of GHG emissions reduced during project cycle

HHSA and IGS Staff will provide needed financial data per NNSAQMD agreement requirements. Additionally throughout the implementation of this project meeting room calendars will be reviewed to ensure video conferencing equipment utilization. Utilization of video conference meeting numbers will be useful in the generation of GHG emissions reduced throughout the project life cycle.

This work statement reflects the period from January 1, 2020 through December 31, 2020 and assumes that the Board of Supervisors approves the contract between NSAQMD and the County prior to January 1, 2020. The tasks will be completed under the guidance of the HHSA Staff. The Directors and Program Managers in all divisions and departments that are involved in this project will be coordinating with the HHSA Staff.

There will be public acknowledgement that this project is funded by the District utilizing DMV Surcharge Funds.

FUNDING REQUEST/BREAKDOWN COST H.

Funding for this video conferencing project consists of the requested \$20,000 in AB 2766 grant funds and matching in-kind funds of \$10,000 for a total project cost of \$30,000.

AB 2766 Grant Funds

Equipment and software purchased with AB 2766 Funds will be 100% devoted to video conferencing capabilities. Requested amount of \$21,196 includes \$19,658.00 allocated for equipment costs, \$1,538 for Contracting. Total amounts and contributions are found below in the referenced Equipment, Contracting, and Labor Chart.

Co-Funding

The amount of \$8,804 will be provided from Staff Costs such as: training of staff, customer training, supervision of the project, data monitoring, coordination of the Information System Services, tracking of expenditures, preparation of progress reports and administrative services.

Nevada County Health and Human Services Agency will track the expenditures of grant funds and in-kind funds using our accounting system purchased by Nevada County and installed April 18, 2005. Finance Plus software allows our Fiscal Unit to track expenditures by projects. We can track expenditures of both the grant funds and the inkind funds very easily using unique project code numbers. We will also use Microsoft Excel to present the financial data for the required grant finance reports.



Equipment, Contracting, and Labor Chart

Total	Equipment List			Contribution Matrix
Equipment Noeded	City		Burdented Cost	
Polycom System	2	5	10,400.00	
Polycom HDX 5005 or equiv	1	5	3,640.00	
LG 55" class flat screen		\$	728.00	
G GS* class flat screen	1	5	1,040.00	THE REPORT OF THE PARTY.
Flat sorgen mount	2000	5	312.00	
Çamera wall mount	3	3	760.00	Contract Costs 40 TREE Cost Conde
Codec wall mount	3	5	468.00	Equipment Costs A8 7766 Grent Funds
HDMI and AV cables	3	5	1,100.00	
Standard PC	1	\$	850.00	
22" monitor		5	140.00	
Shipping	1	15	200.00	
Total Equipment	3		19,658.00	
	otal Contracts	TOLE,	A SPECIAL PROPERTY.	
Contract Meed	CEY	-	Budgeted Cost	
Polycom Residencia Cloense	3	\$		Contract Costs AB 7766 Grant Funds
PC bullid/install	1	15		Contract Costs AB 7766 Grant Funds
Network Cabling	EV 3/80 1	\$		Contract Costs AB 7766 Grant Funds
Additional Power Outlets	1	13	500.00	Contract Costs A9 7766 Grent Funds
Total Contract	\$		1,538.00	
	Total Labor			
Labor Code	Hours		Budgeted Cost	
Network Analyst	36	3	3,564.00	
Desitop Technician		5	710.00	
Facilities	22	15	2,090.00	County of Nevada Matching Funds
Project Management/ Implementation	20	5	2,440.00	
Total Labor	S	Teil!	8,804.00	
Total Pro	oc t C odgeted Amou	mi		
		PARTE	\$0,000.00	

County of Nevada HHSA, Assessor's Office, and IGS. AB 2766 DMV Surcharge Fund Program 2018-2019 Project Cycle

Schedule of Deliverables/ Monitoring Program

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