

The Clark County School District (CCSD) has developed a plan for use of funds obtained for violations of air quality regulations, as outlined in NRS 445B.500. The plan will assist with ensuring that classroom instruction regarding air quality and related topics is aligned to Nevada Academic Content Standards (NVACS) for Science as well as CCSD grade-level curricula. These standards include core ideas regarding Human Impacts on Earth Systems and Global Climate Change. As stated within the standards documents, “Air and water pollution caused by human activities affect the condition of the atmosphere and of rivers and lakes, with damaging effects on other species and on human health.” A partnership with the University of Nevada, Las Vegas (UNLV), and the Clark County Department of Environment and Sustainability focusing on a pollen-monitoring program with educational components has been implemented. In addition, the plan will have a positive impact on student achievement and parent/student engagement in the community by supporting the annual Las Vegas Science and Technology Festival. Approval of the CCSD Air Quality Funds Proposal will enhance CCSD science curricula, support teachers and students, and engage the community while utilizing the funds in a way that fits the original intent. Finally, approval of this proposal will allow CCSD to implement targeted, sustainability-focused, energy efficiency upgrade initiatives which will provide local and regional air quality improvements.

Use of funds include the following:

- Support the pollen-monitoring project in partnership with the University of Nevada, Las Vegas (UNLV), and the Clark County Department of Environment and Sustainability.
- Support the annual Las Vegas Science and Technology Festival Community Event. The Science Festival provides a unique way to get the community, both adults and children, interested and engaged in STEM field literacy, helping to remove key barriers to understanding air quality and the AQI's impact on our community.
- Assemble task forces of teachers to evaluate Tier I materials for science instruction, to include air quality and air quality-based topics, and to revise CCSD grade-level curricula to align with the NVACS for Science. Implementation and use of high-quality materials includes science practices that build students' critical thinking and decision-making skills. These are needed to make sense of complex local phenomena, such as patterns of change in Clark County air quality, and to design solutions to mitigate human impacts on the environment, including air pollution.
- Purchase instructional materials that are aligned with the NVACS for Science to support classroom instruction connected to topics related to clean air, ozone awareness, particulate matter, and health and safety issues related to air quality.
- Attend professional conferences to enhance content and pedagogical knowledge, obtain new instructional strategies, review instructional materials, learn about NVACS-aligned assessments, and enhance knowledge of instructional best-practices which directly impact NVACS for Science-based air quality focused projects.
- Assist with the planning and delivery of professional learning opportunities for K–12 administrators and science teachers on the NVACS for Science and curricular resources which include human activity and impacts on the environment including air quality.
- Explore feasibility and implement projects within CCSD in partnership with the Clark County Department of Air Quality, including but not limited to energy efficiency improvement projects throughout District facilities.

Clark County School District
Curriculum and Instruction Division
Air Quality Funds Proposal

2023-
2024

BUDGET for 2023-2024	
Books	3,000.00
Communications	500.00
Support Staff Overtime/Custodial	2,000.00
Dues & Fees	2,500.00
Education Services/LVSTF	90,000.00
Licensed Extra-duty (\$31.50)	315,000.00
Fringe	7,560.00
General Supplies	8,000.00
Instructional Supplies	105,000.00
Pollen Monitoring	175,291.17
Printing	2,500.00
Substitutes	1,000.00
Technology Supplies	7,500.00
Travel Out Of District	20,300.00
Air Quality Improvement Projects including, but not limited to, bus fleet conversions, traffic management plans, and energy efficiency projects	672,883.92
Total*	\$ 1,413,035.09

*Additional notes regarding the allocations are found on [Appendix A](#)

Budget Description

Books

- Books with classroom lessons and activities related to environmental change and/or air quality.
- Books to support lessons under development for air quality instruction at the high school and middle school levels

Communications

- Web-based conferencing license to allow for virtual meetings and webinars to ensure access for teachers in rural areas and reduce travel

Support Staff Overtime/Custodial

- Required custodial staff and site-based technicians necessary when conducting training on Saturdays or after scheduled work days

Dues & Fees

- Memberships for professional organizations and conference registrations such as NSTA, NSELA, and ISTE

Education Services/LVSTF

- Support funds for the annual Las Vegas Science and Technology Festival

Licensed Extra-duty (\$31.50/hr)

- High school and middle school science teacher professional learning pay for teachers when attending professional learning sessions held outside of contract hours
- Pay for teachers to write, develop, and/or review curriculum, resources, and lessons for use in the Clark County School District
- Pay for teachers to write and develop resources and lessons utilizing the Clark County Department of Environment and Sustainability air quality monitoring data, website, and resources to include clean air, ozone awareness, and health and safety issues related to air quality
- This budget line may increase, but not decrease, based on allocation for Cooling Tower Retrofit Project and engineering review.

Fringe

- Required to pay for benefits as part of paying support staff and licensed extra-duty pay

General Supplies

- Office and training supplies required for conducting workshops and conducting curriculum development work

Instructional Supplies

- Classroom materials needed to conduct workshops
- Instructional supplies purchased for schools to support the implementation of specific lessons and/or trainings, under development, that will focus on science instructional routines
- Workshop materials and classroom materials purchased for teacher use are directly and/or indirectly related to several topics connected to environment and air quality
- This budget line may increase, but not decrease, based on allocation for Cooling Tower Retrofit Project and engineering review.

Pollen Monitoring

- Funds to support the ongoing UNLV pollen monitoring project
- UNLV maintains an “open purchase order” with the Clark County School District and submits invoices for payment
- Funds left on the open purchase order are carried over to the next fiscal year

Printing

- Printing costs for workshops and curriculum development
- Printing of materials and posters to support the implementation of lessons under development utilizing air quality monitoring data and resources to include clean air, ozone awareness, and health and safety issues related to air quality

Substitutes

- Funds to cover the cost of substitute teachers when teachers attend training or meetings during the contracted day
- Funds to cover the cost of substitutes who present workshops during the contracted day

Technology Supplies/Items of Value Technology

- Technology use to support training such as copy machines, jump drives, speakers, or RGB connectors

Travel Out of District

- Travel for staff to attend professional conferences such as the National Science Teachers Association national conference and/or the National Science Teachers Association STEM conference

Projects with Clark County School District

The Clark County School District has worked in partnership with the Clark County Department of Environment and Sustainability to evaluate feasibility and implement projects to improve air quality, including but not limited to, bus fleet conversions, traffic management plans to reduce idling of school buses, and energy efficiency improvement projects throughout District facilities. Past projects that improve the indoor environment and also result in energy savings include heating, ventilation, and air conditioning controls and lighting upgrades. This year, FY24, a focus on portable classroom efficiency upgrades and cooling tower retrofit projects are prioritized.

Budgets and Expenses

Summary below of the line item budgets for fiscal year 2023, accompanied by actual expenses, a summary of achievements, and budgets for fiscal year 2024.

- Electric School Bus & Charging Station: \$580,000
 - Expensed in FY 2023: \$407,000
 - In August 2022, CCSD executed a purchase order for one electric school bus, which has been received. No additional costs were experienced, as the charging stations associated with this line item previously were less costly than anticipated and are fully covered by NV Energy's transportation electrification program.
 - Budgeted in FY 2024: \$0
- Improving Energy Efficiency & Indoor Air Quality in Portable Classrooms: \$930,274.94
 - Expensed in FY 2023: \$66,179
 - Originally intended as a comprehensive inventory and assessment of the heating, ventilation, and air conditioning (HVAC) units in approximately 1,800 portable classrooms.

- District was able to continue to leverage Elementary and Secondary School Emergency Relief (ESSER) Funds for this project in FY23.
- Budgeted in FY 2024: \$250,000
- Lighting Upgrades: \$1,000,000
 - Expensed in FY 2023: \$1,500,000.00
 - \$207,576.59 carried over from FY 22 and \$792,423.41 added from FY 23 funds to fully fund the project.
 - CCSD implemented a major interior and exterior lighting upgrade at one middle school with an underserved population (100% free or reduced priced lunch eligible) and enrollment of approximately 1,300 students. The project improved the experience for students and staff, while saving energy by installing LED fixtures where fluorescent and metal halide technologies were currently being used.
 - Budgeted in FY 2024: \$0
- Cooling Tower Retrofit: \$0 (budgeted in FY23)
 - CCSD to explore the feasibility of a project to upgrade cooling tower systems to eliminate or greatly reduce evaporation. This project seeks to reduce particulate matter emissions, directly impacting air pollution. This project will require engineering and therefore the timeline/cost is not yet known.
 - As engineering is needed, and the timeline is not yet known, the funding in this line may decrease to support Portable Classroom Efficiency Upgrades, Licensed Extra-duty, and/or Instructional Supplies.
 - Budgeted in FY 2024: \$422,883.92

APPENDIX A

		Notes
BUDGET Planning for 2023-2024		
Books	3,000.00	
Communications	500.00	
Support Staff Overtime/Custodial	2,000.00	
Dues & Fees	2,500.00	
Education Services/LVSTF	90,000.00	
Licensed Extra-duty (\$31.50)	315,000.00	Refocus on HS and MS science teacher professional learning - This line may increase, but not decrease, based on allocation for Cooling Tower Retrofit Project and engineering review.
Fringe (2.4% extra duty)	7,560.00	
General Supplies	8,000.00	
Instructional Supplies	105,000.00	Refocus on HS and MS science teacher professional learning workshops and instructional supplies to support implementation - workshop materials and classroom materials purchased for teacher use are directly and/or indirectly related to several topics connected to environment and air quality - This line may increase, but not decrease, based on allocation for Cooling Tower Retrofit Project and engineering review.
Pollen Monitoring	175,291.17	Includes \$ 53,000.17 unspent from FY 23 that runs through Nov 23 and 23-24 allocation of \$ 122,291.00
Printing	2,500.00	
Substitutes	1,000.00	
Technology Supplies	7,500.00	
Travel Out Of District	20,300.00	All new science coordinators and director to attend the National Science Teacher Conference

FACILITIES and Transportation		
Electric School Bus & Charging Station	\$0.00	Not spending in this category this FY
Portable Classroom Efficiency Upgrades	\$250,000.00	To cover repairs and maintenance required to HVAC systems to provide proper ventilation and good indoor air quality to students. This line may increase, but not decrease, based on allocation for Cooling Tower Retrofit Project and engineering review.
Lighting Upgrades	\$0.00	No additional lighting projects in FY 24
Future cooling tower retrofit project	\$422,883.92	Plan supports a project to upgrade a cooling tower to eliminate or greatly reduce evaporation. This project seeks to reduce particulate matter emissions, directly impacting air pollution. This project will require engineering and therefore timeline/cost is not yet known - As engineering is needed and the timeline is not yet known, the funding in this line may decrease to support Portable Classroom Efficiency Upgrades, Licensed Extra-duty, and/or Instructional Supplies.

Total Funds Available (22-23 carryover and 23 fines):	\$1,413,035.09
Total Allocated	\$1,413,035.09