

AGENDA ITEM
September 5, 2023

Subject: Ultraviolet light (UV) bulb replacements

Department: Wastewater Treatment Plant

UV is a simple and cost-effective way to treat wastewater. A key advantage is its ability to treat microorganisms, which have the potential of contaminating local waterways.

UV lamps should be replaced once every 12 months. UV lamps have a lifespan of approximately 9,000 hours. Calculated out, this means the lamp can operate for about 375 days before requiring a replacement.

Recommendation for Trojan Technologies (attached quote) for a not to exceed the amount of \$11,000.00 for (24) Trojan lamps.

Manager's Note:

- The approved 2023 Budget appropriated \$12,000.00 for Wastewater Treatment Ultraviolet light (UV) bulb replacements.
- Cost comparison from 2022 to 2023:
 - 2022 (24) Lamps: \$9,506.16 – 2023: \$10,428.00
 - 2022 Freight \$75.00 – 2023: \$409.80
- Trojan Technologies is a sole-source provider
- There are 96 total lamps – For efficient treatment our Annual Maintenance plan replaces 25% (24 lamps) of the 96 UV lamps per year. Wastewater Staff performs the lamp replacement.
- Ultraviolet light is a disinfection method for destroying disease-causing organisms in wastewater effluent. The UV light destroys the genetic material of microorganisms which prevents them from reproducing.
- The Nevada Wastewater Treatment plant's last process is UV disinfection before the treated water (effluent) is discharged into the Marmaton River.

RESOLUTION NO. 1734

A RESOLUTION OF THE CITY OF NEVADA, MISSOURI, ACCEPTING THE BID AND AUTHORIZING PAYMENT TO TROJAN TECHNOLOGIES FOR THE PURCHASE OF 24 UV LAMPS

WHEREAS, the City of Nevada wishes to purchase Trojan UV lamps, and;

WHEREAS, the City has followed the procedures required by Chapter 26 of the Code of the City of Nevada, Missouri in selecting a qualified vendor to provide this product, and;

WHEREAS, a bid was received in the amount of \$10,837.80 from Trojan Technologies for the Trojan UV Lamp purchase.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Nevada, Missouri, accepts the bid, and the City Manager is hereby directed to execute the purchase of 24 UV Lamps from Trojan Technologies for a not-to-exceed amount of \$11,000.00.

PASSED, APPROVED AND ADOPTED, by the City Council of the City of Nevada, Missouri, this 5th day of September 2023.

(seal)

KENDALL VICKERS, MAYOR

ATTEST:

CYNTHIA DYE, CITY CLERK

From: Mark Mendenhall <mmendenhall@nevadamo.gov>

Date: 8/18/2023, 9:24 AM

To: Mark Mitchell <mmitchell@nevadamo.gov>

Mark,

Here is a quote from Trojan for 24 UV bulbs. Sole source provider of genuine Trojan parts.

Also, can I look for a side by side? If so how much was in the budget?

Thanks,

Mark

— Attachments: —

Scan0135.pdf

174 KB



QUOTATION
QO0007281

TROJAN TECHNOLOGIES
3020 GORE ROAD
LONDON, ON N5V 4T7
CANADA
T. 519-457-3400
www.trojantechnologies.com

Sold to
CITY OF NEVADA
110 S Ash St
Nevada MO 64772-3117
UNITED STATES

Ship to
CITY OF NEVADA
16517 S 1338 Rd
Nevada MO 64772-3701
UNITED STATES

Customer Service Contact : tuvcustomerservice@trojantechnologies.com
 Payment Terms : 0% / 00 / 30 net Internal Sales Rep : Ayush Singh
 Delivery Terms : Customer No. : 100004811
 Carrier/LSP : Reference :
 Quote Date : 08-15-2023
 Quote Expiry Date : 09-14-2023

ATTN: MARK MENDENHALL 417-549-9878

Project Line Item Description	Quantity	Price Discount %		Unit Net Price Net Amount	Tax Rate Tax Amount	Amount		
10 794447-ORD LAMP P, GA64T6HE ANGLE BASE	24.00	434.50/	EA	434.50 10,428.00	0.00% 0.00	10,428.00		
20 FREIGHT FREIGHT & HANDLING ** FREIGHT ID 7575 **	1.00	409.80/	EA	409.80 409.80	0.00% 0.00	409.80		
		Goods Costs		10,428.00 409.80	Discount Subtotal	0.00 10,837.80	Tax Amount 0.00	Total USD 10,837.80