



720.259.5931

866.316.5553

1460 West Canal Court  
Suite 100  
Littleton, CO. 80120-5632

September 25, 2019

Shanna Folse, Buyer  
Jefferson Parish Purchasing Department  
200 Derbigny Street – Suite 4400  
Gretna, LA 70053

RE: Bid #50-00127874 Two Year contract for the Supply of Bulk Powdered Activated Carbon for the Jefferson Parish Department of Water

Dear Ms. Folse,

Attached is our bid submittal in response to your invitation to bid #50-00127874 Two Year contract for the Supply of Bulk Powdered Activated Carbon for the Jefferson Parish Department of Water due September 26, 2019 by 2:00pm local time.

CarbPure Technologies, LLC's core business is selling PAC to the drinking water market. CarbPure is committed to the highest standards of business conduct in our relationships with each other, our stockholders, our customers, suppliers and business partners. It is our vision to be a leader in the supply of Powdered Activated Carbon to the drinking water market in North America.

The CarbPure 500 product offered in our bid is produced by an affiliated company (ADA Carbon Solutions (Red River), LLC) that is wholly owned by our parent company. This affiliate owns a state-of-the-art activated carbon manufacturing and processing facilities in Northwest Louisiana and has been selling activated carbon to the electric power generation and drinking water industries since 2010. Our CarbPure 500 product is manufactured from lignite coal mined within 20 miles of the Coushatta, Louisiana plant at a mine owned by a different affiliated company. We have included copies of the SDS, and NSF Certification, for our CarbPure 500 product. CarbPure 500 specifications are attached. Our printed specifications do not include a Phenol Value because that is not a commonly used test method in the activated carbon market. However, CarbPure has tested our CarbPure 500 product repeatedly and the Phenol Value will comply with the 1.8-3.2 g/L range required in your bid documents. Our product will be shipped from Louisiana in dedicated bulk pneumatic trailers in approximate 40,000 lbs. loads. CarbPure can deliver our product within the 7 days from receipt of order time frame as indicated in the bid documents, but since our manufacturing plant is also located in Louisiana just approximately 270 miles away from your water treatment plant, we expect we can deliver more quickly when needed.

As indicated on our Bid Form, CarbPure is claiming a Louisiana Preference. We have included an Affidavit confirming we meet the requirements of Louisiana R.S. 38:2251.

We have also included the required Non-Public Works Bid Affidavit, a Resolution confirming Tom Stocker is authorized to execute the bid documents and any resultant contract and a Certificate of Insurance showing we meet the required insurance coverage and dates of coverage as indicated in the bid documents.

CarbPure understands that the purpose of the enclosed and signed Non-Collusion Affidavit is to prevent acts by bidders or potential bidders that are contrary to antitrust or bid-rigging laws and rules and to ensure that all contractors for Jefferson Parish are compliant with antitrust or bid-rigging laws and rules. As so understood, CarbPure certifies that it is in compliance with all applicable antitrust or bid-rigging laws and rules. However, the broadly drafted Certifications could be construed to encompass lawful activities and agreements, such as distribution or agency agreements, between participants in a given market (in this case powdered activated carbon for municipal water) to which CarbPure is a party. To the extent the Certifications are construed to cover or encompass such lawful activities and agreements, CarbPure takes exception.

To the extent there may be other terms and conditions not contained in your invitation to bid that are applicable to our supply of activated carbon, CarbPure Technologies, LLC's bid is subject to coming to mutual agreement as to those terms and conditions.

Please let me know if you have any questions or concerns regarding our submittal. We are confident that we can provide high quality product, excellent customer service, and a secure and dependable supply chain to Jefferson Parish.

Best regards,

*Tom Stacker*

Tom Stacker

General Manager and Chief Operating Officer

**All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form**

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES \_\_\_\_\_ NO  X

MAXIMUM ESCALATION PERCENTAGE REQUESTED  0  %

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF  12/31/2021 .

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

**DELIVERY: FOB JEFFERSON PARISH**

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES  7 calendar days

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable)  N/A

**THIS SECTION MUST BE COMPLETED BY BIDDER:**

FIRM NAME:  CarbPure Technologies, LLC

ADDRESS:  1460 W. Canal Ct. Suite 100

CITY, STATE:  Littleton, CO  ZIP:  80127

TELEPHONE: (  720  )  259-5931  FAX: (  866  )  316-5553

EMAIL ADDRESS:  tom.stocker@carbpure.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER:  1, dated 9.20.19

NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

TOTAL PRICE OF ALL BID ITEMS: \$  334,400.00

AUTHORIZED SIGNATURE:  

Tom Stocker

TITLE:  Chief Operating Officer

Printed Name

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

**NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.**

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00127874

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	400.00	TN	<p>TWO (2) YEAR CONTRACT FOR BULK ACTIVATED CARBON FOR THE JEFFERSON PARISH WATER DEPARTMENT</p> <p>0010-TWO YEAR CONTRACT FOR THE PURCHASE OF BULK POWDERED ACTIVATED CARBON FOR THE JEFFERSON PARISH DEPARTMENT OF WATER</p> <p>BULK POWDERED ACTIVATED CARBON FOR BROAD SPECTRUM ORGANICS REMOVAL (DELIVERED FREIGHT PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED).</p> <p>DELIVERY LOCATIONS:</p> <p>EASTBANK WATER PLANT 3600 JEFFERSON HIGHWAY JEFFERSON, LA 70121</p> <p>WESTBANK WATER PLANT 4500 WESTBANK EXPRESSWAY MARRERO, LA 70072</p>	<p>\$836.00 per ton</p> <p>*Notes: 1. CarbPure is claiming a Louisiana Preference 2. Quantities are estimated and could be more or less during the contract term.</p>	<p>\$334,400.00</p>



Debt Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

Choice A \_\_\_\_\_ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B   X   There are **NO** debts which would require disclosure under Choice A of this section.

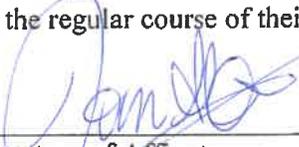
Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

*[The remainder of this page is intentionally left blank.]*

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

**DENISE M KANIA**  
**NOTARY PUBLIC**  
**STATE OF COLORADO**  
NOTARY ID 20134062786  
MY COMMISSION EXPIRES 10/2/2021

  
\_\_\_\_\_  
Signature of Affiant

Tom Stocker, Chief Operating Officer

\_\_\_\_\_  
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 18 DAY OF September, 2019.

  
\_\_\_\_\_  
Notary Public

Denise M Kania  
\_\_\_\_\_  
Printed Name of Notary

20134062786  
\_\_\_\_\_  
Notary/Bar Roll Number

My commission expires 10/2/2021



ADVAEMI-01

JPRESTON

# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

9/19/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Alliant Insurance Services, Inc. 6312 S Fiddlers Green Circle Ste 550E Greenwood Village, CO 80111	<b>CONTACT NAME:</b> Jennifer Preston		
	<b>PHONE (A/C, No, Ext):</b>	<b>FAX (A/C, No):</b>	
<b>E-MAIL ADDRESS:</b> Jennifer.Preston@Alliant.com			
<b>INSURED</b>  CarbPure Technologies, LLC 1460 W. Canal Court, Suite 100 Littleton, CO 80120	<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
	<b>INSURER A : Ironshore Specialty Insurance Company</b>		<b>25445</b>
	<b>INSURER B : Zurich American insurance Company</b>		<b>16535</b>
	<b>INSURER C : AIG Specialty Insurance Company</b>		<b>26883</b>
	<b>INSURER D :</b>		
	<b>INSURER E :</b>		
<b>INSURER F :</b>			

**COVERAGES** **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			002746903	5/1/2019	5/1/2020	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 <b>POLLUTION</b> \$ 1,000,000
B	<input checked="" type="checkbox"/> <b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			BAP0194272-052	5/1/2019	5/1/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			002747003	5/1/2019	5/1/2020	EACH OCCURRENCE \$ 15,000,000 AGGREGATE \$ <b>Aggregate</b> \$ 15,000,000
B	<input checked="" type="checkbox"/> <b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y / <input checked="" type="checkbox"/> N / A If yes, describe under DESCRIPTION OF OPERATIONS below			WC981894805	5/1/2019	5/1/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	<b>Pollution Liability</b>			002746903	5/1/2019	5/1/2020	<b>Limit</b> \$ 1,000,000
C	<b>Equipment Floater</b>			66124955	5/1/2019	5/1/2020	<b>Scheduled</b> \$ 16,195,104

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101. Additional Remarks Schedule. may be attached if more space is required)

<b>CERTIFICATE HOLDER</b>  For Information Only	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	<b>AUTHORIZED REPRESENTATIVE</b>

**RESOLUTIONS ADOPTED BY  
UNANIMOUS WRITTEN CONSENT OF THE  
BOARD OF MANAGERS OF  
CARBPURE TECHNOLOGIES, LLC**

**Dated as of September 18, 2019**

The undersigned, constituting all the members of the Board of Managers (the "**Board**") of CarbPure Technologies, LLC, a Delaware limited liability company (the "**Company**"), pursuant to Section 18-302 and 18-402 of the Delaware Limited Liability Company Act and Section 7(e) of the Amended and Restated Limited Liability Company Agreement of the Company, dated as of February 24, 2016, hereby unanimously consent in writing to the adoption of the resolutions set forth below.

**Authorization of Jefferson Parish, LA, PAC Bid**

**WHEREAS**, the Jefferson Parish, Louisiana (the "**City**"), has issued to the Company an invitation to bid for the supply and delivery of activated carbon for water treatment at the City's water treatment plant;

**WHEREAS**, the Board has been presented with the documents (the "**Bid Documents**") comprising a proposed bid to be submitted by the Company for the supply and delivery of activated carbon to the City's water treatment plant (the "**Bid**"): including the supply of CarbPure 500 at a price of \$0.418 per pound (\$836.00 per ton) for shipments delivered, as more fully set forth in the applicable Bid Documents (the "**Pricing**"); and

**WHEREAS**, the Board has determined that it is in the best interest of the Company for the Company to enter into the Bid Documents and to submit the Bid to the City.

**NOW, THEREFORE, BE IT RESOLVED**, that the execution and delivery by the Company, and the submission by the Company to the Jefferson Parish, the Bid Documents, at the Pricing for CarbPure 500, set forth above, are hereby authorized and approved in all respects;

**RESOLVED FURTHER**, that Thomas Stocker, the Chief Operating Officer of the Company (the "**Authorized Officer**") is hereby authorized and empowered to execute and deliver, in the name and on behalf of the Company, the Bid Documents containing the Pricing for the CarbPure Products set forth above and containing such other terms and conditions as the Authorized Officer shall deem proper, the execution and delivery thereof by the Authorized Officer to be conclusive evidence that the Authorized Officer deems all of the terms and conditions thereof to be proper and of the authority therefor;

**RESOLVED FURTHER**, that the authority granted to the Authorized Officer under the foregoing resolutions shall be deemed to include the authority to perform such further acts and deeds as may be necessary, advisable or appropriate in the judgment of such Authorized Officer to carry out the transactions contemplated by the foregoing resolutions, and the purposes and intent of, the foregoing resolutions, including, without limitation, any negotiation concerning, execution of and delivery of any and all other documents, instruments and agreements relating to the Bid (including, but not limited to, any contract awarded for the Bid), any filings with or notices to, any federal, state or local government or governmental authority, department, commission, board, bureau, agency or instrumentality, and all acts and deeds previously performed by the Authorized Officer in the name and on behalf of the Company, prior to the date of this resolution that are within the authority conferred hereby, are ratified, approved and confirmed in all respects as the authorized acts and deeds of the Company; and

**IN WITNESS WHEREOF**, the undersigned, being all of the members of the Board of Managers of CarbPure Technologies, LLC, do hereby consent to the foregoing resolutions to be effective for all purposes as of the day and year first written above.

By:   
Name: L. Heath Sampson  
Title: Manager

By:   
Name: Greg Marken  
Title: Manager

By:   
Name: Ted Sanders  
Title: Manager

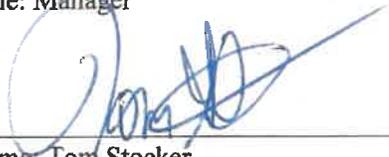
By: \_\_\_\_\_  
Name: Tom Stocker  
Title: Manager

**IN WITNESS WHEREOF**, the undersigned, being all of the members of the Board of Managers of CarbPure Technologies, LLC, do hereby consent to the foregoing resolutions to be effective for all purposes as of the day and year first written above.

By: \_\_\_\_\_  
Name: L. Heath Sampson  
Title: Manager

By: \_\_\_\_\_  
Name: Greg Marken  
Title: Manager

By: \_\_\_\_\_  
Name: Ted Sanders  
Title: Manager

By:  \_\_\_\_\_  
Name: Tom Stocker  
Title: Manager

AFFIDAVIT

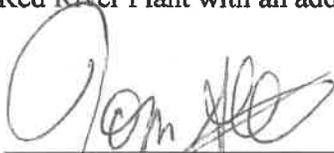
STATE OF Pa

PARISH/COUNTY OF Bucks

BEFORE ME, the undersigned authority, personally came and appeared: Thomas Stocker, (Affiant) who after being by me duly sworn, deposed and said that he/she is the fully authorized MANAGER of CarbPure 500 (Entity), the party who submitted a bid in response to Bid Number 50-00127874, to the Parish of Jefferson.

Affiant further said:

The Entity is bidding and, if selected as the winning bidder, will provide CarbPure 500 to the Parish of Jefferson pursuant to Entity's response to Bid Number 50-00127874. CarbPure 500 is manufactured, as defined in Louisiana R.S. 38:2251, at the Red River Plant with an address of 201 Red River Mine Road, Coushatta, LA 71019.



Signature of Affiant

Tom Stocker

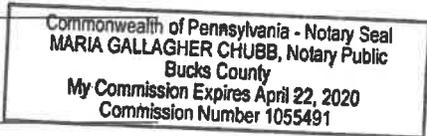
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME  
ON THE 25 DAY OF Sept, 2019



Notary Public

Printed Name of Notary



Notary/Bar Roll Number

My commission expires \_\_\_\_\_.

# CarbPure 500

Powdered Activated Carbon  
for Water Treatment

## CarbPure® 500

CarbPure® 500 is a high quality powdered activated carbon ideally suited for treatment of potable water.

CarbPure 500 is produced by steam activation of coal under carefully controlled conditions to create a carbon specifically designed for enhanced removal of Total Organic Carbon (TOC) and taste and odor causing compounds from potable water supplies. Particle size and density are specifically designed to obtain a high degree of suspension for excellent water contact making CarbPure 500 effective in treating a wide range of water sources.

CarbPure 500 meets ANSI/AWWA B600 standards and is certified to NSF/ANSI Standard 61.

## Package and Delivery

CarbPure 500 can be delivered in 900 pound bags or in dedicated pneumatic bulk trailers.

## Product Benefits

- Designed specifically for treatment of potable water
- Enhanced performance to minimize PAC usage
- Effective pore structure for adsorption of organics that cause taste and odor
- Optimized particle size to provide good suspension in water being treated

## Product Specifications

<b>Moisture (as packed):</b>	8% maximum by weight
<b>Size:</b>	99% minimum minus 100 mesh 95% minimum minus 200 mesh 90% minimum minus 325 mesh
<b>Iodine Number:</b>	500 mg/g minimum

## Typical Properties

<b>Tap Density:</b>	0.5 – 0.7 g/cc
<b>Tannin Value:</b>	350 mg/l

**CarbPure**  
TECHNOLOGIES

720.259.5931

866.316.5553

1460 West Canal Court  
Suite 100  
Littleton, CO. 80120-5632

The information contained herein is believed to be accurate as of the date hereof and is provided "AS IS" with all faults, and the entire risk associated with such information is entirely with the user. We reserve the right to amend any specifications without notice. Last revised on 12/31/17.



## OFFICIAL LISTING

NSF certifies that the products appearing on this Listing conform to the requirements of  
NSF/ANSI 61 - Drinking Water System Components - Health Effects

This is the Official Listing recorded on December 4, 2018.

**CarbPure Technologies, LLC**  
1460 West Canal Court  
Suite 100  
Littleton, CO 80120  
267-795-8486

Facility: # 1 USA

Trade Designation	Size	Process Media	
		Water Contact Temp	Water Contact Material
Granular Activated Carbon [1] [2] CarbPure GAC	[3]	CLD 23	GAC
Powdered Activated Carbon [1] [2] CarbPure	-325 mesh	CLD 23	PAC

[1] The carbon source is coal, wood and/or coconut.

[2] Trade names may include letters and/or numbers to designate any or all of the following: mesh size, customer, market, processing methods, intended applications, activity level, special testing, or other customer or product specific differentiators.

[3] Certified for the following mesh sizes: 8x16, 8x20, 8x30, 10x20, 12x40, 20x40, 20x50, 30x60, 30x200, 80x325.

NOTE: Certified for water treatment plant applications.  
This product has not been evaluated for point of use applications.

Facility: # 2 USA

Trade Designation	Size	Process Media	
		Water Contact Temp	Water Contact Material
Granular Activated Carbon [1] [2] CarbPure GAC	[3]	CLD 23	GAC
Powdered Activated Carbon [1] [2] CarbPure	-325 mesh	CLD 23	PAC

[1] The carbon source is coal, wood and/or coconut.

[2] Trade names may include letters and/or numbers to designate any or all of the following: mesh size, customer, market, processing methods, intended applications, activity level, special testing, or other customer or product specific differentiators.

[3] Certified for the following mesh sizes: >4, 4 x 8, 8 x 16, 8 x 20, 8 x 30, 10 x 20, 12 x 40, 20 x 40, 20 x 50, 30 x 60, 30 x 200, 80 x 325.

NOTE: Certified for water treatment plant applications.  
This product has not been evaluated for point of use applications.

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF.

# NSF International

789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

**CarbPure Technologies, LLC**

Facility: # 1 USA

AS COMPLYING WITH NSF/ANSI 61 AND ALL APPLICABLE REQUIREMENTS.  
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE  
AUTHORIZED TO BEAR THE NSF MARK.



Certification Program  
Accredited by the  
American National  
Standards Institute



Certification Program  
Accredited by the  
Standards Council  
of Canada

This certificate is the property of NSF International and must be returned upon request. This certificate remains valid as long as this client has products in Listing for the referenced standards. For the most current and complete Listing information, please access NSF's website ([www.nsf.org](http://www.nsf.org)).

A handwritten signature in black ink that reads "Theresa Bellish".

March 9, 2017

Certificate# C0270886 - 04

Theresa Bellish

General Manager, Water Systems

# NSF International

789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

## CarbPure Technologies, LLC

Facility: # 2 USA

AS COMPLYING WITH NSF/ANSI 61 AND ALL APPLICABLE REQUIREMENTS.  
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE  
AUTHORIZED TO BEAR THE NSF MARK.



Certification Program  
Accredited by the  
American National  
Standards Institute



Certification Program  
Accredited by the  
Standards Council  
of Canada

This certificate is the property of NSF International and must be returned upon request. This certificate remains valid as long as this client has products in NSF's Official Listings for the referenced standards. For the most current and complete Listing information, please access NSF's website ([www.nsf.org](http://www.nsf.org)).

A handwritten signature in black ink that reads "Theresa Bellish".

December 4, 2018

Certificate# C0454899 - 02

Theresa Bellish

General Manager, Water Systems

## Section 1. Identification of Product and Company

### Supplier

CarbPure Technologies, LLC  
1460 W. Canal Court Suite 100  
Littleton, CO 80120-5632

Telephone Number: 720-259-5931  
FAX Number: 866-316-5553

### Supplier Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300

### Manufacturer

ADA Carbon Solutions (Red River), LLC  
1460 W. Canal Court  
Littleton, CO 80120-5632

Telephone Number: 888-843-8416  
FAX Number: 866-316-5553

### Manufacturer Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300

Product Name: CarbPure Product Series and CarbPure GAC Product Series

CAS Number: 7440-440

### Product/Material Uses

Powdered and granular carbon sorbents for contaminant removal in liquid and vapor-phase media in coal-fired power plants and municipal water treatment centers.

## Section 2. Hazard(s) Identification

### GHS Classification

### **WARNING:**

### **Hazard and Precautionary Statements**

H316: Causes mild skin irritation.

H320: Causes eye irritation.

H335: May cause respiratory irritation.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261: Avoid breathing dust/fume/gas/ mist/ vapors/ spray.

P281: Use personal protective equipment as required.

P285: In case of inadequate ventilation wear respiratory protection.

Dust explosion potential, avoid ignition sources; such as flame, sparks and extended high heat. Avoid dust dispersions (clouds) in a confined space.

Activated carbon (especially when wet) removes oxygen from air and can lower the concentration of oxygen inside vessels and other confined spaces.

Activated carbon is an eye irritant and eye protection must be worn when handling.

Avoid breathing dust; product contains particles less than 10 microns, which are considered a nuisance dust under OSHA guidelines. High airborne concentrations of low-toxicity dusts may cause coughing, sneezing, and mild temporary irritation. Respiratory protection must be worn when excess dusting occurs.

Store in sealed containers in a clean cool, dry, well-ventilated area away from strong oxidizers, ignition sources, combustible materials, and heat. Do not store near, or allow contact with, moisture or strong oxidizers.

Dispose in accordance with applicable federal, state, and local government regulations.

#### Primary Routes of Entry

##### Inhalation

May cause respiratory irritation, mild gastrointestinal tract irritation and diarrhea.

High airborne concentrations of low-toxicity dusts may cause coughing, sneezing, and mild temporary irritation.

Avoid use in confined spaces. Wet activated carbon can absorb and deplete oxygen from the air, causing a severe hazard to workers.

##### Skin Hazards

Prolonged or repeated skin contact may cause irritation, drying, and redness.

##### Eye Hazards

Dust may cause mild mechanical irritation.

##### Ingestion Hazards

May cause mild gastrointestinal tract irritation and diarrhea.

Carcinogenicity- See Section 11.

### Section 3. Composition/Information on Ingredients

Ingredient Name	CAS Number	Percent of Total Weight
Carbon, activated	7440-44-0	85-100
Non-relevant Chemicals per 29 CFR 1910.1200	Not given	0-15

### Section 4. First Aid Measures

#### Inhalation

May cause respiratory irritation.

High airborne concentrations of low-toxicity dusts may cause coughing, sneezing, and mild temporary irritation.

Avoid use in confined spaces. Wet activated carbon can absorb and deplete oxygen from the air, causing a severe hazard to workers.

Remove person from source of exposure and into fresh air. Get medical attention if irritation or breathing difficulties develop.

#### Skin

Prolonged or repeated skin contact may cause irritation, drying, and redness.

Wash affected areas with soap and water. Get medical attention immediately if irritation develops.

#### Eye

Dust may cause mild mechanical irritation.

Hold eyelids apart and flush eyes with copious amounts of water for at least 20 minutes.

Fine particles of activated carbon may not be detected in the eyes following an exposure event, so appropriate medical attention is advised.

### Ingestion

May cause mild gastrointestinal tract irritation and diarrhea.

If person is fully conscious, give one or two cups of water or milk to drink. Get medical attention immediately if large quantities are ingested.

## **Section 5. Fire-Fighting Measures**

### Fire and Explosion Hazards

High dust concentrations may form explosive mixtures with air, which can be ignited by spark or flame. Dusts may accumulate a static charge. Explosivity: Class ST 1.

Fire is possible at elevated temperatures or by self-heating when exposed to strong oxidizers. Activated carbon tends to burn slowly without producing smoke or flame. Material allowed to smolder for long periods in enclosed spaces may produce carbon monoxide, which may reach a lower explosive limit for carbon monoxide (12.5%) in air. Wet activated carbon depletes oxygen from the air. Thermal decomposition may produce toxic gases of oxides of carbon, sulfur, nitrogen, sodium and nitriles of carbon.

**Warning:** Electrostatic precipitator and baghouse hoppers containing powdered activated carbon or fly ash with activated carbon can auto ignite and present a smoldering fire hazard when exposed to elevated temperature and other sources of heat, such as heaters. If activated carbon is present, hoppers should be emptied frequently and particular care should be exercised when hopper heaters are in use. Cutting or welding operations should not be used near this material due to potential for smoldering combustion. This material is not a self-heating material as classified for transportation.

### Extinguishing Media

In case of fire use dry chemical, N<sub>2</sub> or CO<sub>2</sub>. Use water to cool fire-exposed containers. Water will be adsorbed by activated carbon and will displace surface oxygen. Upon drying activated carbon will passivate with oxygen which will cause localized heat build-up. Use water only when necessary.

### Fire-Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear. Remove product from building to a non-hazardous area, preferably outdoors, if safe to do so.

## **Section 6. Accidental Release Measures**

In case of inadequate ventilation to control dust, use NOISH-approved respirator for particulates (e.g., N95). Safety glasses with side shields are recommended as minimum industrial eye protection. Protective gloves are recommended to minimize skin contact. Wash thoroughly with soap and water after handling. Provide maximum dilution or appropriate exhaust ventilation. Avoid generating dust. Pick up released product with appropriate implements and return to original container if reusable, or dispose.

## **Section 7. Handling and Storage**

### **Handling Precautions**

Follow good handling and housekeeping practices. Avoid spills and accumulations of dust, or generation of airborne dust.

Do not enter places where bulk material is used or stored until adequately ventilated to prevent asphyxiation.

As with all finely divided materials, precautions should be taken to avoid inhalation and eye contact. Ground all transfer, blending, and dust collecting equipment to prevent static discharge in accordance with NFPA 70, National Electric Code," NFPA 499, "Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas," NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids," and OSHA Combustible Dust standards. Minimize ignition sources from enclosed material handling, transfer and processing areas where dust may be present.

If activated carbon is present, hoppers should be emptied frequently and particular care should be exercised when hopper heaters are in use. Cutting or welding operations should not be used near this material.

### **Storage Precautions**

Store in sealed containers in a clean cool, dry, well-ventilated area away from strong oxidizers, ignition sources, combustible materials, and heat. Do not store near, or allow contact with, moisture or strong oxidizers.

**Warning:** Wet activated carbon depletes oxygen, creating oxygen-deficient atmospheres in confined spaces.

### **Work/Hygienic Practices**

Wash thoroughly with soap and water after handling.

## Section 8. Exposure Controls/Personal Protection

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

### Engineering Controls

Use with adequate general and local exhaust ventilation to prevent excessive airborne dust concentrations. Local exhaust ventilation should be provided, to maintain exposures below recommended occupational exposure limits. Confined spaces where activated carbon is present should be well ventilated and monitored for oxygen content.

### Eye/Face Protection

Safety glasses with side shields are recommended as minimum industrial eye protection when handling bulk product or performing spill cleanup.

### Skin Protection

Protective gloves are recommended to minimize skin contact. Use a lab coat or disposable coveralls to prevent excessive contamination to personal clothing.

### Respiratory Protection

In case of inadequate ventilation to control dust, use NOISH-approved respirator for particulates (e.g., N95). Supplied air respirators may be needed for entering confined spaces where product is stored or handled to protect against oxygen deficiency. Always follow specific company confined space entry procedures.

### Ingredients – Exposure Limits

Carbon, activated.

OSHA PEL-TWA: 15 mg/m<sup>3</sup>, total dust, as particulates not otherwise specified.

OSHA PEL-TWA: 5 mg/m<sup>3</sup>, respirable dust, as particulates not otherwise specified.

## Section 9. Physical and Chemical Properties

Appearance	grey to black, free flowing powder
Odor	slight sulfur odor may be present
Odor threshold	Not available
pH	5-12
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash Point	Not available
Evaporation rate	Not available
Flammability (solid/gas)	Not available
Vapor pressure	Not available
Vapor Density	Not available
Relative Density (Tapped)	0.4-0.7 g/ml
Solubility	Activated carbon is not soluble in water
Partition coefficient: n-octanol/water	NA
Auto-ignition temperature	> 400 °C
Decomposition Temperature	NA
Viscosity	NA

### **Section 10. Stability and Reactivity**

**Reactivity:** Powdered activated carbons adsorbs most chemical compounds some may be reacted to the Surface of the carbon.

**Stability:** Stable under ordinary conditions of shipment, storage, and use.

#### **Possibility of Hazardous Reactions**

No hazardous reactions are known. Activated carbon is a known health and environmental control for hazardous material.

#### **Conditions to Avoid**

Concentrated strong acids and bases at high concentration. Avoid getting the activated carbon wet with drying cycles, as passivation of the surfaces may release heat.

#### **Incompatible Materials**

Avoid contact with strong oxidizing agents such as sulfuric acid and nitric acid.

#### **Hazardous Decomposition Products**

Thermal decomposition ("burning") may produce irritating toxic gases of oxides or hydrides of carbon, sulfur, nitrogen, sodium and nitriles of carbon. The exact chemicals formed depend on many factors including temperature, oxygen content and heating rate.

### **Section 11. Toxicological Information**

#### **Ingredients – Toxicological Data**

Complete toxicological data is not available for activated carbon.

Carbon, activated.

LC50 (inhal, rat): > 64,400 mg/m<sup>3</sup>

LD50 (oral, rat): > 10,000 mg/kg

#### **Chronic/Carcinogenicity**

The product is not listed as potentially carcinogenic by NTP, IARC, OSHA, or ACGIH. Contains a component (crystalline silica) that is listed by IARC as group 1, by ACGIH as group A2, and by NTP as a known human carcinogen.

## **Section 12. Ecological Information**

### **Ecotoxicological Information**

#### **Ecotoxicity**

No information available for the product. However, ecotoxicity is expected to be minimal.

#### **Persistence and Degradability**

Activated carbon is not biodegradable.

#### **Bioaccumulative Potential**

No information available for the product.

#### **Mobility in Soil**

No information available for the product.

#### **Other Adverse Effects**

This material will increase the conductivity of water by increasing dissolved solids. Activated carbon may exhibit characteristics of the adsorbed material.

## **Section 13. Disposal Considerations**

Dispose in accordance with applicable federal, state, and local government regulations.

When used for mercury sorption in most combustion flue gas, and mixed with combustion residues such as fly ash, the spent product is typically non-hazardous. Spent granular activated carbon may be recyclable, although in special situations the spent material could be a hazardous waste. Dispose of material in approved landfill. Avoid dispersal of spilled material and runoff into soil waterways, drains, and sewers.

## **Section 14. Transport Information**

### **Additional Shipping Paper Description**

UN Number: 1362

Shipping name: Activated Carbon.

Transport hazard class(es): NA

Packing group: NA

Environmental Hazards: NA

This product is NOT considered spontaneously combustible under the "Self-Heating Test for Carbon" protocol listed in the United Nations Manual of Tests and Criteria [33.3.1].

**Section 15. Regulatory Information**

**U.S. Regulatory Information**

Toxic Substance Control Act (TSCA): All ingredients of the product are listed on the TSCA 8(b) Chemical Substance Inventory or are exempt.

Product is subject to SARA 311/312: See section 2 for more information.

Product does not have a CERCLA RQ.

**SARA Section 313 Notification**

This product does not contain any ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372.

**Canadian Regulatory Information**

Product is not regulated or controlled under WHMIS (Canada). This product is not classifiable as hazardous under the Canadian Hazardous Products Act (HPA).

DSL: 6798

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Quartz (respirable) 14808-60-7 (<10)	Carcinogen

**Section 16. Other Information**

**NFPA Rating**

**Health: 1**

**Fire: 1**

**Reactivity: 0**

**HMIS Rating**

**Health: 0**

**Fire: 0**

**Reactivity: 0**

**Personal Protection: B**

Issue Date 10/17/2018 Supersedes all previous SDS for this product.

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