

## http://doingbusiness.lakecountyil.gov/

Lake County will be accepting <u>only</u> electronic RFP submissions for Request for Proposal # 24375 – Total Organic Carbon & Total Nitrogen Analyzer for Lake County Public Works.

Please follow the steps below to upload your electronic RFP Submission:

- 1. Go to www.lakecountypurchasingportal.com
- 2. Click on the RFP Number: 24375
- 3. Click on register for this bid
- 4. Enter your username and password
- 5. Under the Submittals section you will be able to upload your RFP submittal
  - a. Click on the browse button
  - b. Navigate your computer and select the appropriate file
    - i. Multiple files can be uploaded, each file can be no more than 20 MB
    - ii. Files can also be uploaded as a .zip file
  - c. Click on save submittals
  - d. Close the browser

ALL SUBMITTALS SHOULD BE LABELED ACCORDINGLY. PLEASE USE BELOW LABEL FOR YOUR CONVENIENCE.

BID/RFP No. RFP # 24375	Proposer Name: Skalen Inc
Buyer: Matt Finstein	Proposer Address: #107  Butan GA 30518
Bid/RFP Description:	Lake County
Total Organic Carbon & Total Nitrogen Analyzer for Lake County Public Works	ATTN: PURCHASING DIVISION
	18 N. County Street – 9 <sup>th</sup> Floor
BID/RFP Due Date*: September 30, 2024, 11:00 a.m. CST	Waukegan, IL 60085-4350
	4

<sup>\*</sup>Please note: Responses are due at 11:00 a.m. local time on Monday, September 30, 2024. Please allow sufficient time for any technical issues you may have and upload your RFP early. Please email Purchasing at <a href="mailto:purchasing@lakecountyil.gov">purchasing@lakecountyil.gov</a> to receive confirmation that we have successfully received your submission.

#### Lake County, Illinois Request for Proposals # 24375

### Purchase of a Total Organic Carbon & Total Nitrogen Analyzer

This Request for Proposal (RFP) is for the purpose of establishing a contract with a qualified firm for the Purchase of a Total Organic Carbon & Total Nitrogen Analyzer for the Department of Public Works.

Proposers are to submit electronic proposals, to be opened and evaluated in private. one (1) complete electronic unprotected copy via the Lake County Purchasing Portal, and one (1) redacted copy that can be used to comply with the Illinois Freedom of Information Act (FOIA). Please refer to the FOIA statute, 5 ILCS 140/1 et seq., and specifically Section 7 therein, for an explanation of the information that may be redacted.
September 30, 2024, 11:00 a.m. local time
Proposals received after the time specified will not be opened.
Should the proposer require additional information about this RFP, please submit questions on our website at <a href="http://lakecountypurchasingportal.com">http://lakecountypurchasingportal.com</a> by selecting the RFP number and addendum link. Questions may also be submitted via email to <a href="mailto:purchasing@lakecountyil.gov">purchasing@lakecountyil.gov</a> . All questions shall be submitted no less than seven (7) days prior to the RFP opening date.
The following sections, including this cover sheet, shall be considered integral of this solicitation.
*Cover Sheet
*General Terms and Conditions
*General Information
*Submittals
*Evaluation Criteria
*Addendum Acknowledgement  *Proposal Price Sheet
*General Information Sheet
*References
*Sustainability Statement



5012 Bristol Industrial Way # 107, Buford, Georgia 30518 Tel: 1-800-782-4994 / (770) 416-6717 Fax: (770) 416-6718

September 23, 2024

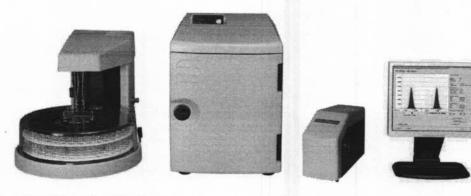
Lake County Public Works-Libertyville Attn: Purchasing Division 500 West Winchester Rd Libertyville IL 60048

#### RFP #24375

Total Organic Carbon & Toal Nitrogen Analyzer for LCPW

Skalar Response C092024M01

# Skalar Formacs<sup>HT</sup> Total Organic Carbon and Total Nitrogen Analyzer



No.	Part Number Description		Qty	
1	2CA16910-01	Total Organic Carbon (TOC) Analyzer: for liquid analysis. Catalytic combustion and non-dispersive infrared (NDIR) detector. Unit can analyze TC, IC, TOC, NPOC and POC. With ND Detector: total nitrogen simultaneously (TN). With NN module: NO2, NO3, NO2+NO3, TKN - Combustion with propriety catalyst to ensure 100% oxidation of carbon and nitrogen compounds - Includes software package - Carrier gas required: synthetic air (flow rate 200 ml/min), oxygen or gas generator	1	
2	2CA16960-01	LAS-160 Auto Sampler: 150 sample positions of 15 mL sample vials + 10 standard/QC positions of 40 mL. Unit can create working standards from a stock solution, pre-dilute, post dilute and analyzer for NPOC analysis		
3	2CA16315-01	NN module. To be used with the Formacs TN analyzer for the analysis of Nitrate+Nitrite. The TKN value can be calculated. TKN = TN - NN		
4	2ND25900-01	otal Nitrogen Detector: Chemiluminescence detector with photomultiplier tube		
5	CA Kit-03	Consumable/start-up kit for approx. one year of operation		
6	2CA Install-02	Two (2) day Installation/training/validation: For operators by certified Skalar chemist. Includes expenses		
7	2CA Ship-01	Shipping and Insurance: To customer's site		

See Proposal Price Sheet for Pricing Details

2CA16910

FORMACSHT ANALYZER

#### SPECIFICATIONS:

Analyzer:

Analytes:

TC, IC, TOC, DOC, NPOC\* and POC. Optional TN and NO3+NO2

Analysis method:

High temperature catalytic combustion, up to 950°C.

Detection method:

Synchronous dual wavelength, digital infrared detection (NDIR).

Drinking-, ground-, waste-, sea-, cooling-, pharmaceutical- and surface waters and industrial production.

Applications:Sample injection:

Automated septumless rotary injection port with integrated wash position for sample line and injection needle

Particle size :

maximum particle size: 450 μm (optional 800 μm)

Measuring range:

Up to 25,000 ppm Carbon, with automatic range selection

Reproducibility (C.V.):

Ranges < 5 ppm within 2% of f.s. range.

Ranges > 5 ppm within 1.5% of f.s. range.

Min. detection limit:

50 ppb C. (lower detection levels can be achieved but depend on laboratory conditions).

Analysis time:

approx. 3 minutes for TC or IC.

Injection volume:

Microsyringe: 10 to 1000 µl (software controlled)

Sample dilution:

10 - 100 times (requires the LAS-160 autosampler, 2CA16960)

Automatic preparation of working standards (requires the LAS-160 autosampler, 2CA16960)

Automatic pre- and post dilution of overrange samples (requires the LAS-160 autosampler, 2CA16960)

Alarm function:

Unattend operation including alarm function with user defined alarm limits such as carrier gas-flow, combustion oven

temperature and peltier cooler temperature.

Sleeping mode:Data processing:

Detector signal: Area calculation with peak editing possibility.

Data: Multi point linear regression, automatic exclusion of results and recalculations, statistical calculation. 21CFR part

11 compliant

Insert, delete or edit of samples during and/or after analysis run

Import function of templates

Output:

I/O: Windows based HTAccess software.

Automatic start up and shutdown function

Result outputs:

Computer screen, printer, Harddrive, CD-ROM, USB-Drive and ASCII files.

CO2-free synthetic- or zero grade air at 200ml/minute by 150 kPa.

Power requirements:

220 - 240V/50Hz., 100 - 120V/60Hz.

Power consumption:

maximum 600 VA 57 x 59 x 41 cm. (HxDxW)

Analyser dimensions:

40 kg. (55 kg including auto-sampler)

Weight:

- 18. (an 18 maranile auto sample)

According method:

EPA 415.1, Standard Methods 5310B, ASTM D5173, EN 1484 USEPA 9060, ISO 8245, DIN 38409 H3

#### Options:

Random Access Rotary Autosampler, LAS-160 (2CA16960)

- Total Nitrogen detector for Total Nitrogen determination (2ND25900)
- NN-reactor for NO<sub>2</sub> + NO<sub>3</sub> determination (2CA16315)\*\*
- Add-on module for TOC solid/sludge (2MC10900) for determination of TC/IC/TOC in solid materials
- CO<sub>2</sub> Scrubber (2CA16317) for removal of CO<sub>2</sub> from the carrier gas

\* requires manual sample pretreatment or the LAS-160 autosampler including the acidification/purging option (2CA16320)

\*\* requires the Total Nitrogen Detector (2ND25900)

2CA16910 FORMACSHT ANALYZER

Includes:

HTAccess Windows™ software.

Cable set.

Instruction manual.

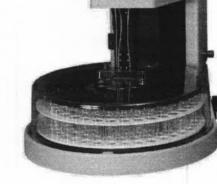
#### **Specifications**

2CA16960 LAS-160 AUTOMATIC ROTARY RANDOM ACCESS AUTOSAMPLER For complete automation of the measurements, to be used with the *Formacs<sup>HT</sup>* TOC analyzer.

#### SPECIFICATIONS:

- Software controlled Random Access
- Sample tray 2CA16306 for 150 sample positions of 15 ml sample vials + 10 standard positions of 40ml
- Top stirring device (2CA16305) for contamination free sample homogenization
- Automatic acidification and purge possibility for NPOC analysis (2CA16320); acidification and purging of the following sample while analyzing the current one.
- Integrated sample needle and purge needle wash station which is continuously refreshed
- Dimensions (HxDxW): 46 x 65 x 48 cm
- Power requirements: 220 240V/50Hz., 100 120V/60Hz.
- Weight: 15.0 kgPower consumption: 100 VA





## ND 25 chemiluminescent detector for the simultaneous analysis of Carbon and Nitrogen.

#### 2ND25900 ND25 CHEMILUMINESCENT DETECTOR

For the measurement of Total Nitrogen and/or  $NO_2 + NO_3$  to be used with the Formacs<sup>HT</sup> TOC analyzer.

#### SPECIFICATIONS:

Analytical range:

Up to 300 ppm N

Detection limit :

30 ppb N

Dimensions (HxDxW):

30 x 46 x 18 cm.

Power requirements:

220 - 240V/50Hz., 100 - 120V/60Hz.

Weight:

12.5 kg.

Power consumption:

65 VA



#### NN module for the analysis of Nitrate + Nitrite.

#### 2CA16315 NN MODULE

- Analytical range: up to 5 ppm N
- Detection limit : 30 ppb N
- The TKN value can be calculated. TKN = TN NN.



#### Introduction Material and Executive Summary:

See attached sheet

#### Company Background:

Skalar has been in business since 1965. The North America headquarters is located outside of Atlanta, Georgia. Skalar has been providing Carbon and Nitrogen analyzers since 1982 primarily to environmental and municipal laboratories for regulatory analysis. North America sales and service are direct through Skalar. Third parties are not used.

#### Scope of Services:

Skalar will provide requested analyzer to full RFP specifications. This includes the required Nitrate+Nitrite module listed under section 4. Scope of Work item "D." No exceptions.

Validation data from Skalar will be included and reproduced on-site at the customer's facility. Trained Skalar Service engineers are located throughout the USA and free 24-hour phone support is available.

#### Subcontracts:

Subcontractors are not used

#### Client Reference:

See attached sheet

#### Exceptions to the RFP:

None

#### Price Proposal:

See attached sheet

#### Sustainability Statement:

Skalar is committed to environmental stewardship. Our business focus is measurement and validation of testing complying with the Clean Water Act. This act drives all business decisions as we protect our water resources.

IN LA. INTENT

It is the intent of the Department of Public Work to Purchase a Total Organic Carbon & Total Nitrogen (TOC\_TN) Analyzer.

**BACKGROUND** 

Lake County is located in northeast Illinois and is 471 square miles in size, between the Chicago and Milwaukee metropolitan areas. Lake County is home to about 736,000 residents and made up of 55 municipalities and 18 townships. Lake County is committed to open government and transparency, and the County board's conservative fiscal policies have allowed the County to maintain fiscal stability and achieve AAA bond rating from Standard & Poor's and Moody's.

**CURRENT ENVIRONMENT** 

The current Total Organic Carbon & Total Nitrogen (TOC\_TN) Analyzer at the Lake County Environmental Laboratory is currently in use to analyze Total Nitrogen (TN), but the Total Organic Carbon (TOC) portion of the analyzer is no longer in use due to that portion not operating correctly. The current TOC\_TN analyzer is 18 years old and is nearing its end of life. There is a need to prepare ahead of this instrument breakdown so there will be no disruption to the TN analysis.

SCOPE OF WORK

The scope of work is to secure a TOC\_TN analyzer that is capable of:

- a) Handling drinking water and wastewater (including raw influents)
- b) Analyzing per Standard Methods
- c) Includes an auto sampler
- d) Includes a Nitrate+Nitrite module
- e) Automatic preparation of working standards
- f) Automatic pre- and post-dilution of overrange samples
- g) Automatic start up and shutdown function
- h) Raw data storage
- i) Providing a Quality Control Package that meets or exceeds requirements for EPA testing methods.
- j) Containing equipment quality control and recovery documentation.

) Location:

The instrument would be located/installed at the Lake County Environmental Laboratory – 500 Winchester Rd, Libertyville, IL 60048

Training:

The selected proposer shall be prepared to provide on-site training. It is expected that this training will be for a minimum of 2 Analysts.

Software:

The TOC\_TN Analyzer should have software that is compatible with Windows 10. The software should be pre-loaded.

# Mps.

#### **DELIVERABLES**

Proposer should be able to provide:

- a) A TOC\_TN analyzer that can test for Total Organic Carbon, Total Nitrogen, Total Kjeldahl Nitrogen, Nitrite, Nitrate, and Nitrate+Nitrite.
- b) A TOC\_TN analyzer capable of running methods that meet TNI and IEPA standards (along with documented support).
- c) A TOC\_TN analyzer whose software is compatible with Windows 10.
- d) A TOC\_TN analyzer with proven track record (e.g. studies, references).
- e) Delivery, including lift-gate service, to 500 W. Winchester Rd Unit #103 Libertyville, IL 60048.4
- f) On-site training for minimum of 2 analysts.
- g) Technical support for target analytes through time of certification. L
- h) Service package to provide technicians' location (e.g. local, regional), availability, and lead time.\*
- i) Quality Control Package that meets or exceeds requirements for EPA testing methods,
- j) Equipment quality control and recovery documentation.,



#### PERFORMANCE FACTORS

Proposers will be evaluated on the following factors:

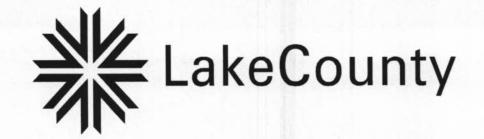
- a) Success of other users with the TOC\_TN analyzer.
- b) Ability to demonstrate analyzer's performance using Lake County provided samples.
- c) Sample run time.
- d) Straightforwardness of manual, instrument methods, and software.
- e) Ease of instrument maintenance (e.g. frequency, accessibility).
- f) Consumable pricing.

# Mb.

#### **PROJECT TIMELINE**

Action Item	Proposed Schedule
Issue RFP	September 3, 2024
Deadline for submission of questions	September 16, 2024
RFP Opening	September 30, 2024
Shortlist Presentation (if necessary)	October 15 – 18, 2024
PWT & Finance Committee Approval	October 30, 2024
County Board Approval	November 12, 2024
Contract Execution	November 18, 2024

<sup>\*</sup>This timeline is subject to change.



#### Addendum Acknowledgement RFP # 24375

The undersigned acknowledges receipt of the following addendum(s):

ADDENDUM #	SIGNATURE
41	
#2	
14	

I have examined and carefully prepared the submittal documentation in detail before submitting my response to Lake County.

Submittal Number

Submittal Number:

Company Name:

Authorized Representative:

Authorized Representative:

Date

Man Payre

It is the Proposer's responsibility to check for addendums, posted on the website at <a href="http://lakecountypurchasingportal.com">http://lakecountypurchasingportal.com</a> prior to the submittal due date. No notification will be sent when addendums are posted unless there is an addendum within three business days of the submittal due date.

If the submittal has already been received by Lake County, Proposers are required to acknowledge receipt of addendum via email to <a href="mailto:purchasing@lakecountyil.gov">purchasing@lakecountyil.gov</a> prior to the due date.

Submittals that do not acknowledge addendums may be rejected.

All responses are to be submitted in a sealed envelope. Envelopes are to be clearly marked with required submittal information.

Lake County

# RFP #24375 - Total Organic Carbon & Total Nitrogen Analyzer for LCPW

#### Addendum

Addendum #1

Q: "What will be the measurement ranges for the TOC Analyzer and TNb Module?"

A: Measurement range for TOC Analyzer can be 5-500 mg/L, measurement range for TN Module can be 1-50 mg/L

Q: "Will an Electrochemical Detector be considered for the TNb analysis?"

A: Sure, an Electrochemical Detector can be considered.

### Addendum #2

Q: "Will 21.CFR Part 11 Compliant software and testing be required (Eg. IQ/OQ)? If so, will this need to be performed by the vendor?

a. The "ability to meet or exceed requirements for EPA testing methods." can mean levels of Carbon/Nitrogen for analysis in typical EPA methods, but the EPA almost always requires methods using data-secure, audit-trail compliant software and validation testing, which is not mentioned in the document."

A: Yes.

Q: "Will a Universal Power Supply (UPS) be required to offer stable, clean power to critical instrument components in case of outages or surges to protect instrument longevity?"

A: No.

Q: "Will magnetic stirring of samples be required to maintain suspension in sample vials?"

A: No.

4. "Will the lab provide its own PC and Monitor?"

A: Yes, if necessary.

Next Blog Posting » (/addendums/rfp-24375---total-organic-carbon--total-nitrogen-analyzer-for-lcpw/addendum/)

<u>View all Posts from this Blog (/addendums/rfp-24375---total-organic-carbon--total-nitrogen-analyzer-for-lcpw/)</u>

The proposer will consider all costs (labor, material, overhead, administration, profit, travel, etc.) associated with providing the services listed in this RFP. (Please attach additional sheets if necessary). The following information shall be submitted with the proposal:

Purchase of an Autoanalyzer including a year of maintenance services	\$71,300
Installation of Autoanalyzer	Freluded
Training	\$ 3,100
Year 2 Maintenance Services	\$ 4995
Year 3 Maintenance Services	\$ 6995
Year 4 Maintenance Services	\$ 7100
Year 5 Maintenance Services	\$ 7,200
Indicate the Manufacturer/Model of the proposed TOC_TN Analyzer	Manufacturer: Skalan
	Model: FORMACS HT

AUTHORIZ	ED NEGOTIATORS:			ext. 1499	
Name: W	LARK PAYNE	Phone # <u>77</u>	0416-6717	Email Address:	Dayne, moskola
Name:				Email Address:	
BUSINESS	ORGANIZATION: (c	heck one only)			
So	le Proprietor: An individ	dual whose signatur	e is affixed to th	is proposal.	
Pa	rtnership: State full nan	nes, titles, and addre	esses of all respo	nsible principals and/o	or partners on attached sheet.
X co	orporation: State of inco	rporation: <u>Gza</u>	orgin		
No	on-profit Corporation				
50	1c3 U.S. Internal Reve	nue Code			
	this proposal document a violation of either Sec				responding on this contract as as amended.
Skal	lan Frc				
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4	1		MARK	PAYK	
Signature			Print or Type	Name	
Man	1ag-1a		9-1	2-2024	
Title			Date		

List below other similar size clients for who you have provided similar services.

Agency Name:	MWRD-Egan
Address	550 South Meuchan Rd
City, State, Zip Code	Schaumburg IL 60193
Telephone Number	773-412-6936
E-Mail	Tadalan AP MURD.ORG
Contact Person	Alfred Tudalan
Dates of Service	Cuparat
# of Employees	Unknown
Agency Name:	MURD- Sticknew
Address	6001 West Deasky Rd
City, State, Zip Code	Cicego IL 60804
Telephone Number	708-588-3675
E-Mail	BeltetonDO NWRD. ORG
Contact Person	David Belteton
Dates of Service	Current
# of Employees	UNKNOVN
Agency Name:	City of Slow Falls
Address	2100 N. Minnesota Au
City, State, Zip Code	Sieux Falls SD STIOY
Telephone Number	1005-310-8532
E-Mail	TLEWISP SIOUX falls ORS
Contact Person	Ted Linis
Dates of Service	Carriet
# of Employees	Unknown
Agency Name:	Midwest Labs
Address	1361 B 3t.
City, State, Zip Code	Omaha NE GB144
Telephone Number	402-829-9873
E-Mail	MStukenholtz A milwestlabs, com
Contact Person	Matt Stakenholtz
Dates of Service	Cunnent
# of Employees	150
5. 2	



### **VENDOR DISCLOSURE STATEMENT**

Vendor Name:	Skalan Inc		
Address:	SOID BROOK FOR USTAND 6	way 4107, Buton GA	30518
Contact Person:	MARIL Payne	Contact Phone #:	770-416-6717
Bid/RFP/SOI/Contract/Renewal:	RFP # 24375		

Vendors wishing to contract with Lake County for goods and services in an amount greater than \$30,000 shall submit this form in advance of award. This disclosure statement is not required for utility companies regulated by the Illinois Commerce Commission or local units of government. Vendors shall disclose:

- A familial relationship <u>between</u> a Lake County elected official, department director, deputy director and manager <u>and</u> owners, principals, executives, officers, account managers or other similar managerial positions of the vendor's company. Familial relationship is defined as a spouse (including civil partner), child, stepchild, parent, stepparent, grandparent, in-laws (including parent, grandparent, sibling, or child), relatives and non-relatives living in the same residence, and offspring born to any aforementioned person.
- All political campaign contributions made by the vendor or an owner, principal, executive, officer, account
  manager, or other similar managerial position of the vendor to any county board member, county board chair, or
  countywide elected official within the last five years.

If there is nothing to report in a section, please state none in the appropriate space.

#### **FAMILIAL RELATIONSHIPS**

List names and departments/agencies of Lake County employees or public officials with whom owners, principals, or officers of the vendor's company have a familial relationship and the nature of the relationship. Attach additional pages, as necessary. (Provide all names or state none in the space below. Do not leave blank.)

Name and Department/Agency of Lake County	
Employee/Public Official	Familial Relationship
11.11	
NING	

#### CAMPAIGN CONTRIBUTIONS

List campaign contributions that have been made within the last five years that exceed \$150 annually. Attach additional pages, as necessary. (Provide all names or state none in the space below. Do not leave blank.)

Recipient	Donor	Description (e.g., cash, type of item, in-kind service, etc.)	Amount/Value	Date Made
1044				

Continuing disclosure is required if information changes. This Vendor Disclosure Statement form is available at www.lakecountyil.gov.

The full text of the County's Ethics and Procurement policies and ordinances are available at <a href="https://www.lakecountyil.gov">www.lakecountyil.gov</a>.

I hereby acknowledge that the information above is accurate and complete, that I am an authorized signer on behalf of the vendor, that I have read and understand these disclosure requirements, and that I agree to update this information if there are any related changes by submitting a new Vendor Disclosure Statement.

Authorized Signature:		Title: Manace L
Printed Name:	MARIC PAYNE	Date: 9-12-2024

Vendors must insert "x" in the following box indicating exception and provide a brief narrative for exception.



# **VENDOR CERTIFICATION FORM**

Bid/RFP/SOI Number:		RFP # 24375				
Vendor Name:		Statut Fre				
Address:		5012 Bristol Folustrial way #100+, Buton 6H 3051B				
Primary Contact Name:		Nack PATINZ				
Primary Contact Email Address:		PAYNE, MESKALAK, COM				
Primary Contact Phone Number:		770-416-6717 ext. 1499				
Project Manager Name:						
Project Manager Email Address:		SAME				
Project Manager Pho	ne Number:					
# Years in Business: 59			Number of Employees:	9		
Annual Sales:		\$4,900,000	Dunn & Bradstreet #:	621544477		
		ctor certifies as a Minority – Business Enterprise (MBE) ctor certifies as a Women Business Enterprise (WBE)				
certification. (Definit		uded on the second page of				
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	Contractor certifies as a Veteran-Owned (VBE) Business Enterprise					
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	Contractor	certifies as a Persons with Disabilities Owned Business Enterprise (PDBE)				
	Contractor	certifies as a Service-Disabled Veteran-Owned (SDVBE) Business Enterprise				
Contractor certifies as a Business Enterprise Program (BEP)						
	Contractor certifies as a Small Disadvantaged Businesses (SDB)					
	Contractor certifies as a Veteran-Owned Small Business (VOSB)					
	Local Busin	cal Business				
X	None					
Other (Specify)						
Certification Number:						
Certified by						
(Agency):						

	best of my knowledge and that I am authorized to	provide this
information on behalf of my company.	. 1 0 / 1	
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Signature, Title Printed Name, Title