GNHWPCA Greater New Haven Water Pollution Control Authority 260 East Street New Haven, CT 06511

203.466.5280 p 203 772.1564 f www.gnhwpca.com

REGULAR MEETING OF THE GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY BOARD OF DIRECTORS WEDNESDAY, APRIL 12, 2023 6:00 P.M. 260 EAST STREET NEW HAVEN, CONNECTICUT

AGENDA

- 1. Approval of minutes of March 8, 2023 Regular Meeting.
- 2. Public participation relating to agenda items.
- 3 Submission of Authority's Cost of Service Study; Annual Budget consisting of next fiscal year's projected expenditures and recommended user rates and charges and a proposed Annual Capital Budget for the next fiscal year; an annual update to the Five-Year Capital Improvement Plan; and the impact of the Annual Budget on the next fiscal year's projected expenditures and revenues and user rates and charges.
- 4. Consideration and approval of a resolution scheduling a public hearing for Wednesday, May 10, 2023 at 5:45 p.m. at the Greater New Haven Water Pollution Control Authority, 260 East Street, New Haven, Connecticut regarding the Authority's Annual Budget and recommended user rates and charges.
- 5. Consideration and approval of a resolution authorizing the Executive Director, Sidney J. Holbrook, to negotiate and execute an agreement with Duke's Root Control, Inc. for CCTV and condition assessment services of approximately 331 manholes, including traffic protection, prioritized by the GNHWPCA CMOM Program, for an aggregate amount not to exceed \$74,840.
- Consideration and approval of a resolution authorizing the Executive Director, Sidney J. Holbrook, to negotiate and execute a change order with Cerilli Construction LLC for the sanitary sewer manhole cover raising, extending the term of such agreement to June 30, 2024.

- 7. Consideration and approval of a resolution authorizing the Executive Director, Sidney J. Holbrook, to negotiate, execute and deliver a task order with CSL Services, Inc. for professional services relating to flow and rain monitoring and data collection with respect to the Combined Sewer Overflow (CSO) outfalls, for an aggregate amount not to exceed \$234,175.20.
- 8. Consideration and approval of a resolution authorizing the Executive Director, Sidney J. Holbrook, to approve the agreement with A. Troiano Landscaping LLC for grounds keeping services to be entered into with New Haven Residuals, LP, in an amount not to exceed \$56,038.00, which amount shall be a pass-through cost to the Authority pursuant to that certain Maintenance Service Agreement by and between the Authority and New Haven Residuals, LP.
- 9. Consideration and approval of a certain Departmental Budget Transfer Request.
- 10. Executive summary and department updates and presentations.
- 11. Consideration and approval, as necessary, of any other new business of the Authority.
- 12. Call to the public.
- 13. Adjournment.



MEMORANDUM

DATE:

March 31, 2023

TO:

Sidney J. Holbrook

FROM:

Thomas Sgroi, PE

Director of Engineering

RE:

Duke's 360 Manhole Inspection & Assessment

Sid:

I request that the above-mentioned recommendation be added to the April 12, 2023 Board Agenda for resolution.

The Engineering Department contracted with Dukes last year to perform CCTV and condition assessment of approximately 340 manholes as part of our Capacity, Management, Operations and Maintenance (CMOM) program. The Engineering Department would like to use their proprietary inspection / consulting services again to perform the same work on 331 manholes (MH). Dukes provides state of the art proprietary 3D video of the manhole that gives us a complete report with all PACP coding. Each complete inspection only takes 10 to 15 minutes at each MH. Inspection and documentation in this format save a tremendous amount of manpower as it avoids multiple inspectors at the manhole site and allows for in office review of the data.

We believe this service provides extreme value and recommend that the board approve a purchase order agreement with Dukes in the amount of \$49,840. This work will also require City Police and/or Flaggers at a budgeted cost of \$25,000 billed hourly. The total request for this project authorization to include both Dukes and City Police/Flaggers is \$74,840.

Dukes Purchase Order NTE - \$49,840 City Police Cost (Allowance) - \$25,000 Total Manhole Inspection and Assessment Cost NTE = \$74.840

This project is funded from the Authority's FY 22-23 Eng. Dept Operating Budget

Thomas V. Sgroi, PE

Director of Engineering

cc: Gabe Varca (e-copy)

Gary Zrelak (e-copy)

Lou Criscuolo (e-copy)

Ricardo Ceballos (e-copy)

DUKE'S

03 / 28 / 2023

Ricardo Ceballos Greater New Haven WPCA 260 East Street New Haven, CT 06511

PROJECT NAME: Manhole Inspection Survey

Dear Ricardo,

Duke's Root Control, Inc. is pleased to submit this proposal to Greater New Haven WPCA for the Manhole Inspection Survey. All details regarding this project are contained within the pages of this proposal and include sample deliverables, scope of service descriptions, and pricing.

This proposal is being submitted based on interpretations made from the study maps or information we have been provided. Please review for accuracy.

Thank you for your consideration and the opportunity to illustrate our services. Please do not hesitate to contact me with any questions regarding this proposal.

Sincerely,

Duke's Root Control, Inc.

Rafael Rovito

Northeast Regional Manager

Rafael Pout

908-510-5917

rrovito@dukes.com

Manhole Inspections - Level 2 MACP Scope of Services

Process

- 1. Making every reasonable effort to access each manhole, complete field televising using a digital manhole camera system (360 degree) at all times possible. Upon occasion, access with the camera system will not be possible due to terrain, resident access issues or location. At those times, crews will use a digital pole camera to obtain video files. Verify all field measurements with survey stick, pipe diameter verification tool and tap measure.
- 2. Contractor to provide all equipment and personnel as required to complete inspections, including at least (1) NASSCO certified inspector onsite during inspections per camera truck.
- 3. Provide all data in Access (NASSCO export DB) and .CSV / Excel format. Provide all digital scan files (.IPF/.MP4 file extension as applicable) as well as the free required view software to view the IPF files. Provide all PDF reports including appropriate attribute information collected per level of inspection detailed below. Provide access to these files via FTP or web link and provide them via USB external hard drive when requested.
- 4. Update DukesGIS as project progresses to display completed, surcharged, or missing structures.

Level 2 MACP Inspection Specifics

Complete inspection using Panoramo 360 SI digital scanning camera equipment to perform full Level 2 MACP inspections including "remote entry" observations, including all Level 1 MACP fields, as well as all Cover dimensions (diameter, surface bearing, condition, lid type); Frame dimensions (all measurements, condition, inflow); Cover Insert (yes/no, condition); Frame Adj Ring (yes/no, height, condition); Chimney (yes/no, material, condition, depth); Cone (yes/no, type, material, condition, depth); Wall/Barrel (type, material, condition, depth); Bench (yes/no, type, material, condition, lining); Pipe (All Rim-to-Invert dimensions for each pipe, pipe size/shape, condition, and material).

Any additional pictures, videos or fields not listed on the MACP Level 2 can be added as required by the client with advanced notice prior to start of project (additional fees may apply).

Responsibilities of Duke's

- 1. Provide staff with proper identification and PPE including, but not limited to hi-vis vests.
- 2. Ensure that all vehicles are properly marked and have adequate safety lighting
- 3. Act in a polite, professional manner at all times and especially when dealing with the public
- 4. Report any severe observations to the point person from the client's office assigned to this project.

Responsibilities of Client

- Provide contractor with all electronic data or PDF maps to successfully complete the project.
- 2. Assist contractor with public issues or concerns.
- 3. Assist with locating or exposing "cannot locate" or "cannot access" structures while on site.
- 4. Provide point of contact for project.
- Make every possible effort to ensure that the survey map is current and accurate and that manhole lids are accessible so that project can be completed in designated time frame.

Manhole Inspections - Level 2 MACP Scope of Services (cont.)

Responsibilities of Duke's

Repair Recommendations

When included in proposal, repair recommendations for each manhole will be provided. The means in which this data will be delivered will be via Excel VBA driven spreadsheet program and will include the Asset ID#, Severity Rating (0 = good condition – no I/I and/or no structural defect or repair that should be considered as preventative or made within 7-10 years; 1 = fair condition – light I/I and/or structural defect that should be repaired within 5-7 years; 2 = moderate severity – regular flowing I/I and/or structural repair that should be made within 1-3 years; 3 = severe condition – heavy I/I and/or severe structural defect that should be repaired immediate to 1 year), Type of Repair by category (e.g. grout, curtain grout, chimney seal, lining, inside drop, bench rehab or replacement, etc), estimated budget price for repair and notes on condition or repair. All data from the original survey will be presented in drill down format through our Executive Dashboard Program.

GPS Coordinates / Geodatabase deliverable

When included in proposal, contractor to shoot each asset using Trimble GNSS R2 receiver with sub-foot accuracy with data correction services. Exceptions to sub-foot accuracy might occur based on tree cover or other satellite obstruction. Contractor will make every possible effort to ensure sub-foot accuracy is achieved for each asset. All data will be delivered via Geodatabase format including updating the client's existing attribute table and linking PDF reports to the asset (if requested).

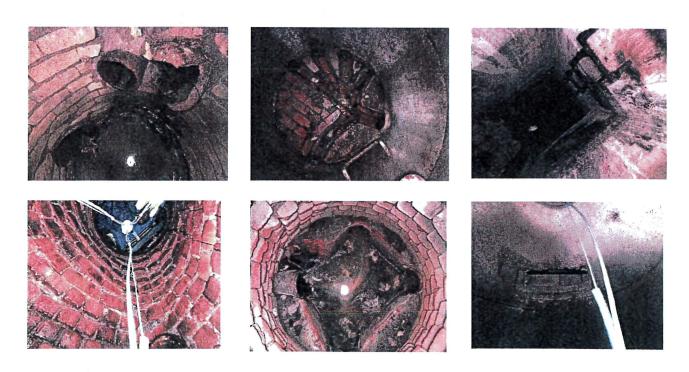
Integration Into Client Asset Management or Work Order System

When included in proposal, and when available, consultant to work with utility to define repair types and populate those into client's work order management system.

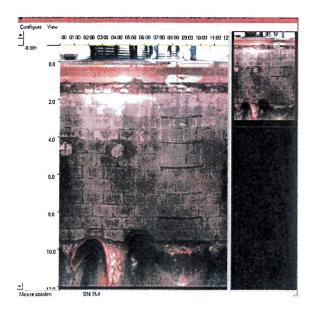
Manhole Inspections - Sample Deliverables

Video Files & Functionality

Sample Panoramo 360 SI Imaging (Level 1 & Level 2 services). There are three views within the Panoramo camera files - the 360 view which allows the user to pan/tilt and move up/down through the structure, the unfolded view which allows the user to take measurements and the point cloud view which allows the user to determine structure type and import into CAD. Collectively, these three perspectives portray the condition, size and defects within the structure.



360 Perspective View



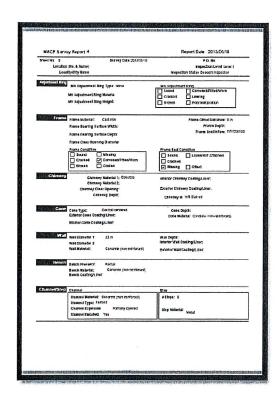


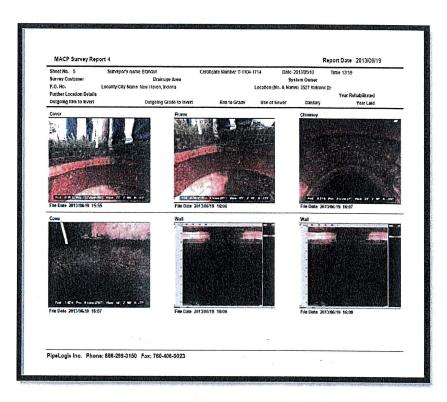


Point Could View

Reporting

Client will receive reports delivered in PDF format from a NASSCO certified software (Pipelogix). Based on the level of inspection (Level 1 or Level 2), fields within the report will be entered according to the required fields for the survey. For a level 2 survey, customer will receive a picture defect report, in addition to the standard MACP report pictured below. In addition to PDF format, all data is also delivered in a current NASSCO MACP compliant MS Access Database (.MDB) and MS Excel (.XLS) format for easy integration into most software platforms. Other reports such as the NASSCO Quick Rating score report and summary reports is also prepared as part of the standard deliverables package. Please reach out to us if you have specific data integration needs.



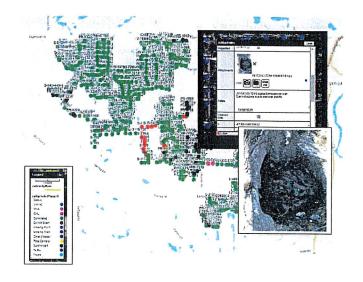


Detail Report

GIS Tool

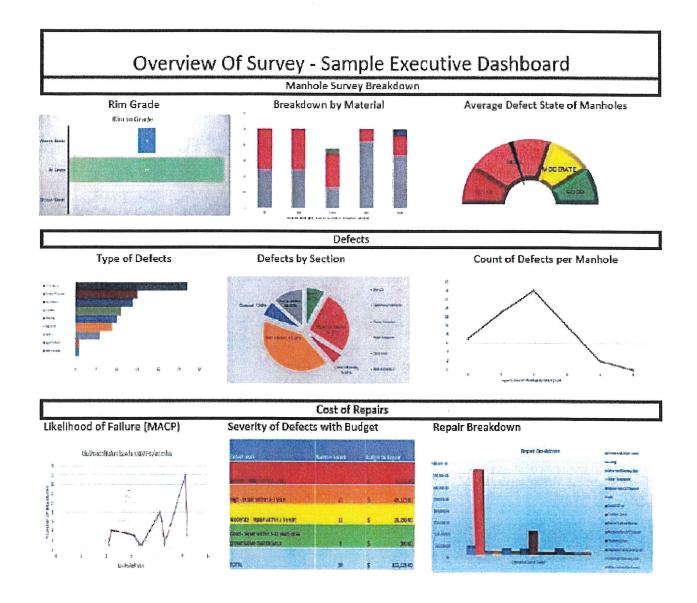
Our field collection process is real time, and at your fingertips. We do this through our hosted GIS platform in which we grant you access during the project. You can use it to view crew progress, identify and help remedy access issues and identify surcharges or immediate issues before deliverables are created. At the end of the project, we submit all data to you back in Geodatabase format, including repair recommendations, issue structures and found structures. We believe in easy data integration so we prepare you deliverables in a variety of formats that integrate into GIS, ERP and Asset Management Systems. Just ask!

Defect Picture Report

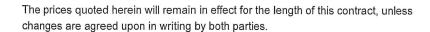


Executive Level Analysis and Reporting Options

Our dynamic Dashboard tool allows you to quickly view, query and sort your data to drill down to the information you need to perform critical repairs or to generate bid files for CIP programs. View pictures from the tool, group like manholes together and print combined reports in PDF. The power of the project is at your fingertips!



Investment





TYPE OF SERVICE	Price	UM	QTY	Subtotal
Level 2 Manhole Inspection Program Manhole Inspection & Assessment Program Includes: Pano SI- digital 360 manhole inspections MACP deliverables with repair recommendations GDB / GIS shape files with all deliverables Deliverables Review Meeting	\$140.00	EA	331	\$46,340.00
Mobilization	\$3,500.00	LS	1	\$3,500.00
Traffic Control Duke's to contact Flagger service if police detail is not available. List of Flagger servies to be provided by GNHWPCA.	\$25,000.0 0	Allowanc e	1	\$25,000.00

Total

\$74,840.00

Proposal pricing is valid for 90 days.

We ask that our clients assist with structures that are not located or accessible while our crews are in the field in an effort to achieve full project completion. If assistance with access to structures cannot be completed within 24 hours after crews complete field work, a remobilization fee may be applied to complete remaining structures on the project.

Monthly progress billing will be based on field work completed to date. 10% of the item value will be withheld from billing until receipt and approval of final deliverables for the project. Any mobilization fees will be billed as they are incurred.



Greater New Haven Water Pollution Control Authority 260 East Street New Haven, CT 06511

203.466.5280 p 203 772.1564 f www.gnhwpca.com

MEMORANDUM

DATE:

March 29, 2023

TO:

Sidney J. Holbrook, Executive Director

FROM:

Gary Zrelak, Director of Operations

RE:

Project SSR 2017-08 Contract Extension

Sanitary Sewer Manhole Cover Raising

Cerilli Construction LLC

Sid:

I request that the above-mentioned recommendation be added to the April 12, 2023 Board Meeting Agenda for resolution.

The Operations Department requests to extend the sanitary sewer manhole cover raising contract with Cerilli Construction LLC until June 30, 2024. The contractor has agreed to maintain the unit prices submitted under the original contract. The Authority budgets for 250 manhole covers and frames to be raised annually within the collection system. The contractor performance has been excellent and will maintain the existing pricing to June of 2024 to align with the fiscal year.

Gary Zrelak

Director of Operations

e-copy:

Gabe Varca, Director of Finance & Administration

Lou Criscuolo, Deputy Director of Finance & Administration

Thomas Sgroi, Director of Engineering Rick Hurlburt, Superintendent of Sewers Joe Megale, Deputy Director of Operations



Greater New Haven Water Pollution Control Authority 260 East Street New Haven, CT 06511

Project: Sanitary Sewer Manhole Cover Raising

Project Number: SSR 2017-08

Date: March 1, 2023

To Whom It May Concern,

Cerilli Construction is in agreement to extend our contract with GNHWPCA for one additional year holding to our current pricing sheet until June 30, 2024. It has been a pleasure working with the staff and we look forward to continuing our business relationship.

If any additional information is needed, please let us know.

Robert J Cerilli- Member

www.cerilliconstructionct.com

Email: cerilliconstruction@gmail.com

Tel: 203.234.2275 Fax: 203.239.1150

83 N Hill Rd. North Haven, CT 06473



Greater New Haven Water Pollution Control Authority

260 East Street New Haven, CT 06511 203.466.5280 p 203.772.1564 f www.gnhwpca.com

DATE:

April 3, 2023

TO:

Sidney J. Holbrook, Executive Director

FROM:

Gary Zrelak, Director of Operations

RE:

Task Order Recommendation

CSL Services, Inc.

Flow Monitoring Services for CSO Outfalls, CSO Outfall and Duckbill

Inspection Services, and Rainfall Monitoring Services

Sid:

I request that the above-mentioned recommendation be added to the April 12, 2023 Board Meeting Agenda for resolution.

This request is to assist the Authority by providing professional services to provide flow monitoring, rainfall monitoring, and data collection to characterize flow contributions to the local waterways via the Authority's permitted Combined Sewer Overflow (CSO) outfalls.

I recommend approval of the attached CSL Services, Inc proposal dated March 31, 2023. The total amount of these services shall not exceed Two Hundred Thirty-Four Thousand One Hundred Seventy-Five Dollars and Twenty Cents (\$234,175.20).

This project is funded 100% from the Authority's Annual Operating Budget.

Gary Zrelak

Director of Operations

e-copy:

Gabe Varca, Director of Finance & Administration

Lou Criscuolo, Deputy Director of Finance and Administration

Tom Sgroi, Director of Engineering

Joseph Megale, Deputy Director of Operations



March 31, 2023

Mr. Gary Zrelak
Director of Operations
Greater New Haven Water Pollution Control Authority
260 East Street
New Haven, CT 06511

RE: Proposal to Provide CSO Outfall Monitoring, CSO Outfall and Duckbill Inspection Services and Rainfall Monitoring Services Proposed Scope of Services

Dear Gary:

CSL is pleased to submit this proposal to provide professional services for the Greater New Haven Water Pollution Control Authority (GNHWPCA).

The purpose of this Scope of Services is to provide flow monitoring, rainfall monitoring and data collection on a temporary and/or on-going basis to characterize flow contributions to the local waterways via the Authority's permitted Combined Sewer Overflow (CSO) outfalls. This metering data will ultimately satisfy the goals of the Authority's LTCP as well as satisfy the Authority's NPDES permit requirements.

On behalf of the Authority, CSL will provide professional services to include collection of flow data at key locations currently identified in Table 1 below. This data will be collected on a continuous basis to produce reliable relationships between rainfall events and CSO discharges.

The Authority has retained CSL to provide the professional services associated with obtaining and providing flow metering and reporting to meet both the LTCP and NPDES permit requirements.

7905 BROWNING ROAD, SUITE 316 • PENNSAUKEN,NJ • 08109 PHONE: 856-755-9440 • FAX: 856-755-9445 In addition to the professional services listed above, CSL will purchase and provide replacement sensors and flow meters as needed to keep the GNHWPCA owned flow meters operating properly for the duration of the project.

The CSO Outfall Monitoring Locations are listed in Table 1 below, and the location of the Rain Gauges is listed in Table 2 below.

Table 1-CSO Outfall Monitoring Locations

Table 1-CSO Outlan Mointoring Locations					
Location					
Grasso near intersection of Orange					
Intersection of Grasso and Derby					
1st manhole on Derby from intersection with Grasso					
Intersection of Fitch and Whalley					
Intersection of Grasso and Legion					
Intersection of Grasso and Truman					
75 Sea Street					
Between Sea St. and Boulevard Pump Station					
Intersection of River St & Poplar St					
25 East St					
547 East Street					
458 Grand Avenue					
15 James Street					
End of James Street					
86 East Street Pump Station					
On Humphrey, between State St and I-91					
855 State Street					
229 George Street					
On Frontage, above State Street					
Intersection of George and State Streets					
End of Columbus Avenue					
In middle of James St. between 230 and 238 James					
98 River Street					
600 Connecticut Ave.					
Intersection of State, Water, and N. Frontage					
Intersection of Fitch and Whalley					
Ella T Grasso and Legion					
Ella T Grasso and Columbus (on Columbus)					
1 Davis Street, Hamden					

Table 2-Rain Gauge Locations

Site	Location	
Boulevard PS RG	Sea & S. Water Streets (Boulevard PS)	
Arch Street PS RG	169 Arch Street	
Quinnipiac RG	Essex Street and North Hemingway Street	

The CSO Outfall and Duckbill Inspection Services include the following:

- Inspections to be performed at the locations shown on the attached forms
- CSL will complete the forms per GNHWPCA direction
- These inspections will occur once per month
- The forms will be completed by a CSL Field Technician and reviewed by a CSL Data Analyst and Project Manager prior to submission to GNHWPCA
- CSL will schedule these inspections during normal monthly maintenance visits to the flow meters so as to take advantage of the Police Details for Traffic Assistance already deployed for this effort. This should mean there will not be any additional cost to GNHWPCA for the Police Details due to these inspections.

DELIVERABLES

The following information will be provided to the Authority:

- 1. Collection of depth, velocity, and flow and Rainfall data on a continuous basis at the locations listed in Table 1. Access to the data will be provided via User Name and Password, and will be available to view, download and/or print from the CSL website.
- 2. Verification of the accuracy and reliability of this flow data on a continuous basis.
- 3. CSL will provide monthly reports to include the following information at each location listed in Table 1:
 - Number of Discharge Events
 - Start and Stop times for each discharge event
 - Duration of Event
 - Measured Rainfall by CSL's rain gauge for the period 24 hours prior to each discharge event
 - Volume of Discharge for each event
 - Total Volume discharged each month
- 4. CSL will complete the attached Inspection Form once per month based on the Inspections.

PROPOSED FEES

As we discussed, CSL has added a Cost of Living Adjustment (COLA) to the rates we had been charging on previous task orders due to the significant inflationary cost increases over the past year. CSL utilized the US Bureau of Labor Statistics Consumer Price Index (CPI-U) which showed a 6% year over year increase for this adjustment. Accordingly, CSL will perform the professional services outlined in the Deliverables section above as follows:

1. CSO Outfall Monitoring-a monthly Fee of \$572.40 / Meter / Month.

For the sites currently installed in the GNHWPCA system listed in Table 1 above, the fees are estimated as follows:

- Monthly \$16,599.60
- Annually \$199,195.20

These fees do not include any fees invoiced by the New Haven Police which are required as part of performing this work in the GNHWPCA system. The Police costs will be paid by CSL directly and passed along without mark-up for payment to GMHWPCA by CSL monthly.

- 2. CSO Outfall & Duckbill Inspection Services-a monthly fee of \$2,597.00 and an estimated annual fee of \$31,164.00.
- 3. Rainfall Monitoring Services-a monthly fee of \$106 / RG / Month.

For the sites currently installed in the GNHWPCA system listed in Table 2 above the fees are estimated as follows:

- Monthly \$318.00
- Annually \$3,816.00

Please feel free to contact me if you have any questions.

Sincerely,

Bruce E. Cohen President



Greater New Haven Water Pollution Control Authority 260 East Street New Haven, CT 06511

203.466.5280 p 203.772.1564 f www.gnhwpca.com

MEMORANDUM

DATE:

April 3, 2023

TO:

Sidney J. Holbrook, Executive Director

FROM:

Gary Zrelak, Director of Operations

RE:

Grounds Keeping Contract Extension 2023

A. Troiano Landscaping LLC

Sid:

I request that the above-mentioned recommendation be added to the April 12, 2023 Board Meeting Agenda for resolution.

The Operations Department requests to extend the above grounds keeping with A. Troiano Landscaping LLC. The contractor has agreed to maintain the unit prices submitted under the original contract. This contract is a pass-through for work performed by New Haven Residuals LP and A. Troiano Landscaping LLC will be performing the work and billing New Haven Residuals LP directly.

Gary Zrelak

Director of Operations

e-copy

Gabe Varca, Director of Finance & Administration

Lou Criscuolo, Deputy Director of Finance & Administration

Thomas Sgroi, Director of Engineering Joe Megale, Deputy Director of Operations

PROPOSAL

FOR

2023 LANDSCAPING

SYNAGRO NEW HAVEN CONTRACT MAINTENANCE

FOR

GNHWPCA

January 5, 2023

A.Troiano Landscaping 6 Coach Drive Northford, CT 06472 203 907-8186

Happy New Year! I would like to continue the maintenance contract bid into 2023. I will keep the bid price and the additional properties which were added apart from the bid the same as 2022 year.

The original bid proposal of 17 pump stations -	\$ 40,350.00
Spring & Fall Clean-ups for above	\$ 7,150.00
	\$ 3,500.00
260 East St lawn & Spring and Fall clean-up	\$ 5,038.00

TOTAL \$ 56,038.00

Thank you, Anthony Troiano



To:

Greater New Haven Water Pollution Control Authority

260 East Street New Haven, CT 06511 203.466.5280 p 203 772.1564 f www.gnhwpca.com

From:	Gary Zrela	k			
Date:	04/03/23				
Re:	Operation	s - Opera	ting Fund Transfe	r Request	
Transfe	er Amount		Transfer From		Transfer To
\$10	00,000	0	1.1450.000.5675		01.1450.000.5695
\$220,000		0	1.1450.000.5676		01.1450.000.5695
\$32	20,000		Total		
Explanat ESWPAF		CONTRACTOR OF THE PROPERTY OF			e repairs required at the Rebuild, Steam Line Repairs
			East St,Blvd and St		
				_	
Department Signature:				Jung	Kulley.
Approved by:					
			Director of	of Finance	and Administration
Approved	d by:				
				Executiv	e Director
Board Ap	proval:				
				Date of	Meeting
Notes:					

Director of Finance and Administration

1101001

All departmental budget transfers to and from Regular Wage (5010), Temporary & Part Time Wage (5011), and Overtime Wage (5015) Accounts shall be submitted to the Executive Director for review and approval.

All fund transfers between departmental budgets and cost centers less than \$10,000 shall be submitted by the Director of Finance and Administration to the Executive Director for review and approval.

All fund transfers between departmental budgets and cost centers equal to and greater than \$10,000 shall be approved by the Board of Directors.