

MICHAEL DeFRANCISCI Executive Director

GREGORY A.TRAMONTOZZI General Counsel Acting Clerk

600 Wilson Avenue
Newark, New Jersey 07105
P (973) 344-1800
www.nj.gov/pvsc
"Protecting Public Health and the Environment"

Engineering Department Fax: 973-817-5995

April 4, 2014

Paul D. Saurer, P.E. Hazen and Sawyer 498 Seventh Avenue, 11<sup>th</sup> Floor New York, New York 10018

Re: NOTICE TO PROCEED - DESIGN SERVICES AND DESIGN SERVICES DURING CONSTRUCTION FOR THE PLANTWIDE REPLACEMENT OF ELECTRICAL POWER CABLES

Dear Mr. Saurer:

I am pleased to inform you that the Passaic Valley Sewerage Commission has awarded you the Contract for Design Services and Design Services During Construction necessary for the replacement of the electric feeder cables. This letter is your notice to proceed. Please sign the attached agreement and return to PVSC on or before April 8, 2014.

We look forward to working with Hazen and Sawyer through the successful completion of this project. If you have any questions, please call Mike Dox at 973-817-5987.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSION

John Rotolo Chief Engineer

# ATTACHMENT:

AGREEMENT BETWEEN PASSAIC VALLEY SEWERAGE COMMISSION AND HAZEN AND SAWYER

## MD: md

C: Joseph Kelly
Thomas Fuscaldo
Bridget McKenna
Michael Urbanski
John Bolcar
John Maia
Jerry Oselador
Chris Coon
Peter Wasiliew
Michael Dox



# AGREEMENT BETWEEN

# PASSAIC VALLEY SEWERAGE COMMISSION

AND

HAZEN AND SAWYER

Agreement 2634
PVSC Executive Directive No. 50-14
Dated: March 20, 2014

THIS AGREEMENT is made as of March 20, 2014, by and between:

PASSAIC VALLEY SEWERAGE COMMISSION

600 Wilson Avenue Newark, New Jersey 07105 (hereinafter, "PVSC")

and

**HAZEN AND SAWYER** 

498 Seventh Avenue, 11<sup>th</sup> Floor New York, New York 10018 (hereinafter, "Consultant")

WHEREAS, the Passaic Valley Sewerage Commission owns and operates a 330 MGD secondary wastewater treatment facility located in Newark, New Jersey. In the early 1980's, PVSC underwent a major expansion, at which time most of the facility's process treatment equipment was installed and placed in service; and

WHEREAS, the 140-acre facility contains more than one mile of 15-foot-wide utility tunnels in which most of the electrical distribution cables are located; and

WHEREAS, in the wake of Superstorm Sandy, many of PV\$C's facilities suffered extensive damage due to flood waters that submerged electrical equipment and distribution cables located in basements, equipment galleries, underground duct banks and utility tunnels.; and

WHEREAS, on January 31, 2014, PVSC issued an RFQ/RFP seeking qualifications and proposals for Design Services and Design Services During Construction Services necessary for the replacement of the electric feeder cables that were damaged during Superstorm Sandy; and

WHEREAS, six (6) proposals were received on February 28, 2014, with Consultant having a responsive proposal to the requirements of the RFQ/RFP based on PVSC's ranking

qualifications and the fact that Consultant's proposal was the lowest qualified proposal with a cost in the amount of \$995,422.00; and

WHEREAS, Consultant, in response to the RFQ/RFP issued by PVSC on January 31, 2014, submitted a proposal dated February 28, 2014, with a cover letter dated February 28, 2014, signed by Paul D. Saurer, P.E., to provide consulting engineering services with respect to, among other things, the Design Services and Design Services During Construction necessary for the replacement of the electric feeder cables (the "Proposal"); and

WHEREAS, PVSC approved the Proposal as is set forth in Executive Directive No. 50-14, dated March 20, 2014 (Exhibit A); and

WHEREAS, Consultant is willing and able to provide the services contained in the Proposal, as evidenced by Consultant's February 28, 2014, letter (Exhibit B).

NOW, THEREFORE, in consideration of the mutual covenants contained herein, it is hereby agreed between the parties as follows:

#### I. CONSULTANT'S SERVICES

- A. <u>Description of Consultant's Services</u>. Consultant shall provide the services described in PVSC Executive Directive No. 50-14, dated March 20, 2014 (Exhibit A), Consultant's Proposal, dated February 28, 2014, and incorporated herein as Exhibit B, and the RFQ/RFP. In the event of any conflict between the Consultant's proposal and the RFQ/RFP, the RFQ/RFP shall take precedence and shall bind the parties.
- B. <u>Changes in Consultant's Personnel</u>. Consultant shall not make changes in personnel or subconsultants without the prior written permission of PVSC.
- C. <u>Consultant's Work Product</u>. At the conclusion of the work performed hereunder, Consultant shall return to PVSC, without further charge or payment, all data, drawings and other

documents, including, but not limited to, all underlying calculations, computations, and studies, which documents shall become the property of PVSC. Consultant may retain copies of all work and documents for its records. Consultant does not assume liability for reuse of data, drawings and other documents by PVSC or others for any purpose other than the purpose intended in this Agreement.

## II. METHOD OF PAYMENT

- A. <u>Fees.</u> PVSC shall pay Consultant for services performed in connection herewith, in accordance with this Agreement, the provisions contained in the Proposal and PVSC Executive Directive No. 50-14, dated March 20, 2014, in an amount not to exceed Nine Hundred Ninety Five Thousand, Four Hundred Twenty Two Dollars (\$995,422.00).
- B. <u>Method of Payment</u>. Consultant shall submit monthly invoices for services rendered. PVSC shall make payments within forty (40) days after receipt of each such invoice. Invoices must be received at least twenty-four (24) days prior to the published dates of the PVSC meetings in order for payment to be made within forty (40) days.
- C. <u>Disputes</u>. In the event of a disputed or contested billing, PVSC shall withhold only that portion so contested and PVSC shall pay the undisputed portion. No interest shall accrue on any unpaid balance.

#### III. INSURANCE

Consultant shall procure and maintain, at Consultant's own cost, throughout the duration of the project from inception through completion insurance as follows:

a. Statutory Workers' Compensation Insurance in compliance with the laws of the State of New Jersey

\$500,000/\$500,000/\$500,000

Employers Liability Coverage in the amount of

\$1,000,000

b.	Comprehensive General Liability and	
	Bodily Injury, including death	\$1,000,000 each occurrence
	Combined Single Limit	\$1,000,000 each occurrence
c.	Comprehensive Automobile Liability,	
	Bodily Injury, Property Damage	\$1,000,000 each occurrence
	Combined Single Limit	\$1,000,000 each occurrence
d.	Professional Liability	\$1,000,000 per claim and annual aggregate

PVSC and its commissioners, officers, directors, employees, and agents shall be named as additional insureds on the Comprehensive General Liability and Comprehensive Automobile Liability policies. Consultant shall provide evidence of same in the form of certified endorsements specifically naming PVSC and its commissioners, officers, directors, employees, and agents as additional insureds. The submission of a Certificate of Insurance will not serve as adequate proof that PVSC and its commissioners, officers, directors, employees, and agents have been named as additional insureds.

Each insurance policy shall contain a provision stating that neither Consultant nor the insurer may cancel, materially change, or refuse renewal without a minimum thirty (30) days' prior written notice to PVSC. In the event of cancellation due to non-payment of premiums, said notice shall be given at least ten (10) days prior to cancellation. All insurance required pursuant to this section shall remain in full force and effect until final contract payment.

Each insurance policy shall provide that neither Consultant nor it insurer shall have any right to subrogation against PVSC. Any and all policies of insurance maintained by Consultant

shall be primary and without contribution from any insurance procured, carried, and/or maintained by PVSC.

In the event Consultant is permitted to utilize any subconsultant, Consultant shall require the subconsultant's insurance coverage to be at least equal to the requirements set forth above, including, without limitation, the provisions regarding the naming of additional insureds and Consultant's insurance being primary. In the alternative, Consultant may insure the activities of it subconsultants under its own policies. Consultant is responsible for and will assume all liabilities for any insurance deficiency or delinquency of a subcontractor or any claim that may result because of the deficiency or delinquency.

# IV. <u>INDEMNIFICATION</u>

Consultant shall, at all times, indemnify and keep indemnified PVSC, its employees, agents, successors and assigns and hold and save them harmless from and against any and all liability for damages, loss, costs, charges and expenses of whatever kind or nature, including but not limited to, court costs, reasonable attorney's fees and reasonable expert fees, for all claims for which PVSC, its employees, agents, successors, and assigns shall or may at any time sustain or incur by reason of or in consequence of, any negligence or any wrongful act or omission, whether intentional or unintentional, of Consultant, its agents, employees, successors or assigns, arising out of Consultant's performance under this Agreement, and will pay over, reimburse and make good to PVSC, its employees, agents, successor or assigns, all money, including, but not limited to, court costs and reasonable attorney's fees, which PVSC, its employees, agents, successors or assigns shall pay, or cause to be paid or become liable to pay by reason or in consequence of any negligence or any wrongful act or omission, whether intentional or unintentional, of Consultant, its agents, employees, successors or assigns, arising out of

Consultant's performance of this Agreement, or in connection with any litigation, investigation or other matters connected therewith.

The failure of Consultant to obtain, maintain, or pay for any insurance coverage as will insure the provisions of this Agreement and/or the failure of Consultant's insurance carrier to provide insurance coverage shall not relieve Consultant of its indemnification obligations.

### V. PENALTIES AND FINES

In the event PVSC is penalized by any governmental authority, including but not limited to the Environmental Protection Agency (EPA) and/or the New Jersey Department of Environmental Protection (NJDEP), due to an act or omission by Consultant, Consultant shall be solely responsible for same, and shall reimburse PVSC for same within ten (10) days of receiving notice on a dollar for dollar basis. Any monies paid by Consultant pursuant to this provision shall not relieve Consultant of liability to PVSC for damages sustained by PVSC by virtue of any other provision of this Agreement.

#### VI. NEW JERSEY LAW

This Agreement shall be construed under the laws of the State of New Jersey. No suit concerning this Agreement shall be instituted in any jurisdiction other than the State of New Jersey.

#### VII. CHANGES

PVSC may, at any time, by written order, make changes in the services or work to be performed within the general scope of this Agreement. If such changes cause an increase or decrease in Consultant's cost of, or time required for, performance of any services under this Agreement, an equitable adjustment shall be made and this Agreement shall be modified in writing accordingly.

### VIII. SUSPENSION OR ABANDONMENT

If PVSC suspends or abandons all or any portion of the work to be performed under this Agreement, and PVSC provides at least thirty (30) days' prior written notice thereof, this Agreement shall be terminated as to the part suspended or abandoned, and all plans, documents, and completed and partially completed work required by this Agreement shall become and remain the property of PVSC. In the event that PVSC suspends or abandons the work to be performed under this Agreement, PVSC shall make payment to Consultant for all reasonable and necessary costs that Consultant incurs, but in no event shall PVSC make payment for damages and/or anticipated profits.

# IX. TERMINATION OF AGREEMENT

A. <u>Termination For Cause</u>. If Consultant, for any cause whatsoever within its control, shall fail or refuse to complete the work or any portion thereof to be performed under this Agreement within the time prescribed herein, or should violate any of the terms, conditions or covenants of this Agreement and fail to remedy such violation within thirty (30) days after receiving written notice thereof from PVSC, PVSC shall have the right to cancel this Agreement.

- B. <u>Termination Without Cause</u>. PVSC, in its sole discretion, may terminate this Agreement at any time by giving Consultant thirty (30) days' notice thereof.
- C. Return of Property. If PVSC shall terminate this Agreement, all data, documents, and completed and partially completed work in connection with this Agreement shall become and remain the property of PVSC upon payment to Consultant for all work deemed satisfactory to PVSC, including costs and overhead expenses incurred up to the termination date, but in no event shall PVSC make payment for damages and/or anticipated profits.
- D. <u>Non-Waiver.</u> If PVSC elects to terminate this Agreement, said termination will be without prejudice to PVSC's right to pursue any other remedies in law or in equity, including PVSC's right to proceed against Consultant for breach of contract.

## X. SUCCESSORS AND ASSIGNS

Consultant shall neither assign its rights nor delegate its duties under this Agreement or any of the payments becoming due hereunder without the prior written consent of PVSC. Notwithstanding the foregoing, all agreements and covenants herein contained shall extend to and be binding upon the successors and assigns of Consultant and PVSC, it being understood however that no contractual relationship shall exist between PVSC and any Consultant subcontractors consented to by PVSC. Any assignment or delegation by Consultant in violation of this section shall be void.

#### XI. AFFIRMATIVE ACTION

Consultant agrees to comply with the requirements of P.L. 1975, c. 127 (N.J.A.C. 17:27.1, et seq.). The mandatory language which is more specifically set forth in Exhibit C and

applicable regulations promulgated by the Treasurer of the State of New Jersey pursuant thereto are hereby incorporated herein by reference and made part of this Agreement.

#### XII. CERTIFICATE OF AUTHORIZATION

If Consultant is a corporation, other than a professional corporation established pursuant to N.J.S.A. 14A:17-1, et seq., and will be offering or practicing professional consulting services in New Jersey as part of this Agreement, it shall, upon execution of this Agreement, provide a Certificate of Authorization in compliance with N.J.S.A. 45:8-56. Further, Consultant shall be responsible for complying with all statutory requirements of N.J.S.A. 45:8-27, et seq. (including N.J.S.A. 45:8-56), as they apply to Consultant, and any of Consultant's subcontractors and/or successors and assigns.

### XIII. BUSINESS REGISTRATION CERTIFICATE

Consultant shall comply with the requirements of the Business Registration Law, N.J.S.A. 52:32-44 (P.L. 2004, c. 57). Consultant shall provide a copy of its business registration to PVSC upon execution of this Agreement. Consultant, as a contractor of PVSC, agrees to the following mandatory language:

N.J.S.A. 52:32-44 (P.L. 2004, c. 57) (Business Registration Law) amends and supplements the business registration provisions of N.J.S.A. 52:32-44, which impose certain requirements upon a business competing for, or entering into, a contract with a local contracting agency whose contracting activities are subject to the requirements of the Local Public Contracts Law (N.J.S.A. 40A:11-1, et seq.), or the Public School Contracts Law (N.J.S.A. 18A:18A-1, et seq.)

The contractor shall provide written notice to its subcontractors and suppliers of the responsibility to submit proof of business registration to the contractor;

Before final payment on the contract is made by the contracting agency, the contractor must submit to the contracting agency an accurate list and the proof of business registration of all subcontractors or suppliers used in the fulfillment of the contract, or shall attest that no subcontractors or suppliers were used;

For the term of the contract, the contractor and each of its affiliates and subcontractors of its affiliates [N.J.S.A. 52:32-44(g)(3)] shall collect and remit to the Director, New Jersey Division of Taxation, the use tax due pursuant to the Sales and Use Tax Act, (N.J.S.A. 54:32B-1, et seq.) on all sales of tangible personal property delivered into this State, regardless of whether the tangible personal property is intended for a contract with a contracting agency.

A business organization that fails to provide a copy of a proof of business registration as required pursuant to the Business Registration Law, N.J.S.A. 52:32-44, or that provides false business registration information, shall be liable to a penalty of \$25.00 for each day of violation, not to exceed \$50,000.00 for each business registration not properly provided or maintained under a contract with a contracting agency.

# XIV. PUBLIC LAW 2005, C. 51 (FORMERLY EXECUTIVE ORDER NO. 134)

A. Requirements. In order to safeguard the integrity of New Jersey State government procurement by imposing restrictions to insulate the award of State contracts from political contributions that pose the risk of improper influence, purchase of access, or the appearance thereof, Public Law 2005, c. 51, signed into law March 22, 2005 (hereinafter, "Chapter 51"), the Certification and Disclosure Form in Exhibit D, and the Statement of Ownership in Exhibit E have been completed and executed and are attached hereto. The terms and conditions set forth in this Section are material terms.

- B. <u>Definitions.</u> For the purpose of this Agreement, the following shall be defined as follows:
  - a) Contribution means a contribution reportable as a recipient under "The New Jersey Campaign Contributions and Expenditures Reporting Act." P.L. 1973, c. 83 (N.J.S.A. 19:44A-1, et seq.), and implementing regulations set forth at N.J.A.C. 19:25-7 and N.J.A.C. 19:25-10.1, et seq. Contributions in excess of \$300 during a reporting period are deemed "reportable" under these laws as of January 1, 2005, for all contracts awarded in excess of \$17,500.00 after October 15, 2006.

- b) Business Entity means any natural or legal person, business corporation, professional services corporation, limited liability company, partnership, limited partnership, business trust, association or any other legal commercial entity organized under the laws of New Jersey or any other state or foreign jurisdiction. It also includes (i) all principals who own or control more than 10 percent of the profits or assets of a business entity or 10 percent of the stock in the case of a business entity that is a corporation for profit, as appropriate; (ii) any subsidiaries directly or indirectly controlled by the business entity; (iii) any political organization organized under 26 <u>U.S.C.A.</u> 527 that is directly or indirectly controlled by the business entity, other than a candidate committee, election fund, or political party committee; and (iv) if a business entity is a natural person, that person's spouse or child, residing in the same household.
- C. Breach of Terms of Chapter 51 Deemed Breach of Contract. It shall be a breach of the terms of this Agreement for the Business Entity to (i) make or solicit a contribution in violation of Chapter 51, (ii) knowingly conceal or misrepresent a contribution given or received; (iii) make or solicit contributions through intermediaries for the purpose of concealing or misrepresenting the source of the contribution; (iv) make or solicit any contribution on the condition or with the agreement that it will be contributed to a campaign committee or any candidate or holder of the public office of Governor, or to any State or county party committee; (v) engage or employ a lobbyist or consultant with the intent or understanding that such lobbyist or consultant would make or solicit any contribution, which if made or selected by the business entity itself, would subject that entity to the restrictions of Chapter 51; (vi) fund contributions made by third parties, including consultants, attorneys, family members, and employees; (vii) engage in any exchange of contributions to circumvent the intent of Chapter 51; or (viii) directly or indirectly through or

by any other person or means, do any act which would subject that entity to the restrictions of Chapter 51.

D. <u>Continuing Disclosure</u>. The business entity is required, on a continuing basis, to report any contributions it makes during the term of this contract, and any extension(s) thereof, at the time any such contribution is made. A separate disclosure is required for each person or organization defined above as a business entity. Such disclosure shall be submitted to PVSC using the standard certification and disclosure form on the Department of Treasury, Division of Purchase and Property website:

http://www.state.nj.us/treasury/purchase/execorder134.htm.

E. <u>Consultant's Obligations</u>. This Agreement is not intended to recite verbatim Consultant's obligations under Chapter 51 (N.J.S.A. 19:44A-20.13 to -20.25). Questions regarding the interpretation or application of Public Law 2005, Chapter 51 may be directed to the New Jersey Department of Treasury, Division of Purchase and Property website:

http://www.state.nj.us/treasury/purchase/execorder134.htm.

#### XV. CLAUSES REQUIRED BY LAW

All clauses required to be included in this Agreement, pursuant to the provisions of federal or state law or regulation, are hereby incorporated by reference and shall apply to this Agreement as if set forth at length herein.

#### XVI. COUNTERPARTS

This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but the several counterparts shall constitute one and the same instrument.

# XVII. INCORPORATION OF RECITALS

The recital paragraphs and Exhibits attached hereto are incorporated herein by reference as if set forth at length herein.

# XVIII. COMPLETE AGREEMENT

This Agreement (consisting of pages 1-13 inclusive), together with Exhibits A through F, represents the entire understanding and agreement between PVSC and Consultant for services pertaining to the project and supersedes all prior negotiations, representations or agreements, either written or oral. This Agreement and the Exhibits attached hereto may only be amended, supplemented, modified or canceled by a duly executed written instrument signed by both PVSC and Consultant.

IN WITNESS WHEREOF, PVSC and Consultant, acting herein by their duly authorized representatives, have hereunto set their hands this day and year first above written.

Attest:	PASSAIC VALLEY SEWERAGE COMMISSIONERS
Gregory A. Tramontozzi, Esq. Acting Clerk	By: Michael DeFrancisci Executive Director
Attest:	HAZEN AND SAWYER
Wi Cray	By:
	Title: Vice Presiden 1

# **EXHIBIT A**

### PVSC EXECUTIVE DIRECTIVE

NO. 50-14

WHEREAS, on January 31, 2014. PVSC issued a Request for Qualifications and Proposals (RFQ/RFP) with a response date of February 28, 2014. The RFQ/RFP scope includes Design Services and Design Services During Construction necessary for the replacement of the electric feeder cables that were damaged during Superstorm Sandy, and

WHEREAS, the RFQ/RFP review process consisted of: (1) a review of each respondent's qualifications, followed by: (2) a review of the cost proposals of the qualified respondents, and

WHEREAS, PVSC received six (6) proposals. The Review Committee reviewed and scored the qualifications of all respondents, in accordance with Executive Order No. 37 (Corzine) and the cost proposals from three (3) of the six (6) respondents, and

WHEREAS, two (2) proposers, AECOM and CDM Smith, took exception to work scope items that included, respectively, the review of design alternatives and the replacement of damaged cable trays required by the scope. In addition, Arcadis significantly underproposed the Man-Days estimate required for Task 1, the Investigation, and assigned zero (0) Man-Days to several other tasks required by the Scope of Work, and

WHEREAS, the Review Committee concluded that AECOM, Arcadis and CDM Smith were not responsive to the requirements set forth in the RFQ/RFP, therefore the cost proposals of these firms were not opened, and

WHEREAS, the proposed prices and associated level of effort (in Work Days) for the three responsive firms are as follows:

Respondent	<u>Price</u>	Work Days
Hazen and Sawyer	\$ 995,422.00	1092
HDR	\$ 1,447,000.00	1132
Greeley and Hansen	\$ 1,690,501.70	1192

WHEREAS, all responsive firms have previous experience in this type of work and are qualified for this assignment, and

WHEREAS, the qualification and cost proposal of Hazen and Sawyer was the most responsive to the requirements of the RFQ/RFP. Hazen and Sawyer scored the highest in the qualifications proposal while having the lowest cost proposal, and

WHEREAS, in a memo dated March 17, 2014, Chief Engineer John Rotolo recommends that a contract be awarded to Hazen and Sawyer, in accordance with its proposal, for a cost not to exceed \$995,422.00.

IT IS, THEREFORE, DIRECTED pursuant to Executive Order No. 55 (Christie) and N.J.S.A. 58:14-1, ct seq., that the Passaic Valley Sewerage Commission hereby accepts the proposal of Hazen and Sawyer for an amount not to exceed \$995,422.00. This project is anticipated to be submitted for reimbursement as part of a FEMA Project Worksheet (PW-UHBAJ37) for the replacement of electrical feeder cables for the PVSC Facility.

Date: 3/20/2014	Wil Left
	MICHAEL DEFRANCISCI EXECUTIVE DIRECTOR
ATTEST:	
Date: 3 120114	GREGORY A. TRAMONTOZZI, ESQ

# EXHIBIT B

Date: February 28, 2014

Mr. Michael DeFrancisci
Executive Director
Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, New Jersey 07105

Dear Mr. DeFrancisci:

The undersigned hereby submits the enclosed proposal for the position of DESIGN SERVICES AND DESIGN SERVICES DURING CONSTRUCTION FOR THE PLANTWIDE REPLACEMENT OF ELECTRICAL POWER CABLES

The undersigned hereby undertakes and promises to provide services for DESIGN SERVICES AND DESIGN SERVICES DURING CONSTRUCTION FOR THE PLANTWIDE REPLACEMENT OF ELECTRICAL POWER CABLES and to do all work requested as appropriate and required herein as well as the contract documents concerning the same, including all written amendments and changes thereto, if any, which are incorporated herein by reference and made a part of this proposal.

- VINALIM	Hazen and Sawyer	
SIGNATURE Paul D. Saurer	BUSINESS NAME Vice President	2/28/14
Type or Print Full Name	Title	Date
212-539-7076	212-614-9049	
Telephone Number	Fax-Telephone Number	

February 28, 2014

Mr. Michael DeFrancisci
Executive Director
Passaïc Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105

# Dear Mr. DeFrancisci:

I hereby submit the enclosed compensation proposal for the DESIGN SERVICES AND DESIGN SERVICES DURING CONSTRUCTION FOR THE PLANTWIDE REPLACEMENT OF ELECTRICAL POWER CABLES.

I affirm and certify that I am an authorized agent of this firm submitting this compensation proposal for this project to make this commitment.

Janune	
	Hazen and Sawyer, P.C.
Signature	Firm Name
Paul D. Saurer, P.E.	Vice President
Print Name	Title

Attachment H

Summary of Total Project Cost

	1811		111111111111111111111111111111111111111	Estimate	Estimate of Labor Costs	145		
MACAN SO MOLIGINOSAG	Project		Principal Engineer	Engineer/ Scientist	Designer/ Drafter	Technician Support	Support	Total Labor Cost
Hourly Rates>	5194	5162		286	\$51	٥	385	
Task 1 - Investigation & Concept. Design (per S of W)								
1.1 Investigation (Including Workshops)	\$3,110	\$12,960	\$34,560	\$27,648	\$24,624	S	S	\$102,902
1.2 Conceptual Design	\$12,442	\$12,960	\$47,520	\$34,560	\$28,728	S	\$2,592	\$138,802
Task 2 Design Services (per Scope of Work)			1 3 3 Lau					
2.1 Design	\$3,110	\$12,960	\$60,480	\$62,208	\$49,248	ន	\$2,074	\$190,080
22 Meetings	\$6,221	\$5,184	S	\$	95	S	8	\$11,405
2.3 Bidding Assistance	\$6,221	\$1,296	3	S	S.	S	\$2,592	\$10,109
Task 3 - DSDC (per Scope of Work)		ů,						
3.1 Notice to Proceed	S	\$1,296	S\$	0\$	S	O\$	\$	\$1,296
3.2 Linison and Administration - (Included in 3.3)	8	8	8	\$	3	\$	\$	S
	\$46,656	\$46,656	\$31,104	95	S	S	S	\$124,416
3.4 Baselines and Benchmarks	8	\$1,296	\$864	8	જ	S	Ş	\$2,160
3.5 Approval of Manufacturers/vendors	S	S	\$1,728	\$1,382	ઝ	S	8	\$3,110
3.6 Shop Drawnigs	95	8	\$17,280	\$71,194	S	S	\$12,442	\$100,915
3.7 Contractor Initiated Substitutions - (Included in 3.6)	S	S	8	\$	\$	જ	S	S
3.8 Testing (Included in 3.6)	R	8	S	8	S	S	\$	\$
Field Orders	S	S	SS	\$6,912	OŞ.	OŞ.	S	\$6,912
3.10 Change Orders	3	S	\$31,968	æ	S	O\$	S	\$31,968
3.11 Payment Requests	\$3,110	\$46,656	S	S	Ş	S	S	\$49,766
3 12 Start-Up Services - (Included in 3.6 and 3.13)	8	8	8	8	\$	R	8	S
Na San	\$6.221	\$6,480	\$6,912	S	\$16,416	S	\$15,552	\$51,581
		1				TOTAL LABOR Cost	OR Cost	\$825,422

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Description	Çost
ask 1 - investigation/Concept Design	\$241,704
ask 2 - Design Services	\$211,594
ask 3 - DSDC	\$372,125
ask 4 - Other Direct Costs	\$10,000
ask 5 - Allowances	\$100,000
ask 6 - Admin. PVSC Funding Req.	\$10,000
ask 7 - Speciality Consulting Services	\$50,000
TOTAL PROJECT COST	\$995,422

Attachment G

Total M Total					Estimate	Estimate of Man-Days	2		
Nais 36 79 104 60 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DESCRIPTION OF WORK	Project Manager	Project Engineer	Principal Engineer	Engineer/ Scientist	Designer/ Drafter	Technician	Support	Total Man- Days
Nais 16 79 40 40 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hourly Rates>			TAYOU TANK				31(5)	
2   10   40   40   60   0   0   0	Task 1 - Investigation & Conceptual Design								
8         10         55         50         70         0         5           3tals         10         20         95         90         130         0         5           4         4         4         0         0         120         0         4           4         4         4         0         0         0         0         4           4         4         1         0         0         0         0         0           1als         1         0         0         0         0         0         0           0         1         1         0         0         0         0         0           0         1         1         0         0         0         0         0           0         1         1         0         0         0         0         0           0         2         2         2         0         0         0         0           0         0         2         2         0         0         0         0           0         0         3         0         0         0         0         0	1.1 Investigation	_	10 Hz				M SOLS		152
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#### Passaic Valley Sewerage Commission

RFQ/RFP for Dasign Services and DSDC for the Plantwide Replacement of Electrical Fower Cables

# SOQ/TECHNICAL PROPOSAL

#### **EXECUTIVE SUMMARY**

The 330 mod wastewater treatment owner! and operated by Passaic Valley Sewage Commission (PVSC) suffered extensive damage due to Superstorm Sandy in 2012. Specifically for this project, electrical. power distribution cables in the utility tunnel were damaged and require replacement at this time to restore full reliability of the plant network. Although the storm event occurred over one year ago, this project has all elements of emergency work and needs to be fast-tracked. At the same time, the replacement alternatives require careful examination and execution to properly deliver this project. It is with this basic understanding of the project that we have assembled an engineering team to complete this important assignment. The key elements of our proposal are summarized below.

- Hazen and Sawyer is multi-disciplined design firm focused exclusively on water and wastewater.
   Our Electrical Design group consists of 31 electrical professionals skilled in all aspects of electrical power distribution systems.
- We have showcased five projects that demonstrate our qualifications in electrical design and emergency oriented-work for this assignment.
   Two of the projects, Newtown Creek WPCP and DC Water, satisfy the RFP requirement of design of 15 KV electrical service for plants with capacities of 200 mgd or more.
- We have identified the critical Issues and challenges within our Technical Approach. Our Team believes that the key to this project lies in the initial task of investigation and conceptual design. Our proposed approach is to apply ample resources in the first 60 days and solve all layout challenges in the conceptual design phase. This will be done working closety with PVSC at all times.

- Our project team will consist of staff from New York City as well as our Raieigh office. Raieigh office staff will be temporarily relocated to the Newark area in the first 60 days of the project. Our project leaders will be Paul Saurer, George Markou, Vincent Tomarch and Gerald Ratasky. This team has the ability to bring all necessary firm resources to this important project.
- We have added Paulus, Sokolowski and Sartor (PS&S) to our team in small, but important role.
   Frank Mescall and Everton West will help with the examination of existing conditions and FEMA coordination.

Our project team is in a ready-mode for this assignment and we look forward to working closely with PVSC.

# RESPONDENT'S EXPERIENCE

Since its founding in New York City in 1951, Hazen and Sawyer has successfully completed thousands of projects across the United States. We have a proven track record in the planning and design of all types of water and wastewater treatment facilities for a diverse range of clients - large cities, small municipalities, utilities, and industries, such as power, food, pharmaceuticals, and chemical manufacturers. We have successfully completed thousands of wastewater treatment plant upgrades for municipal clients, spanning a variety of treatment technologies, plant sizes, and treatment needs. We have helped clients develop new, technologically-advanced wastewater treatment plants with capacities ranging from less than one to more than 300 mgd, each uniquely designed and built to meet specific desired outcomes. Just as often, we have assisted in the rehabilitation, upgrading, and expansion of existing plants. Our engineers are skilled in maximizing the

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use of existing structures and equipment, and our careful project sequencing keeps plants in serviceduring the phase-in of new facilities.

Hazen and Sawyer is the number one ranked firm by Engineering News Record exclusively focused on the domestic wastewater market. Headquartered in NYC and with 43 offices and over 750 professionals on staff (including more than 360 licensed professional engineers), we have received numerous awards for our projects from publications and professional societies. The firm is committed to maintaining its position at the helm of advancing wastewater and water management technologies as our core business.

# Degree of Expertise in Areas Outlined in the PVSC RFQ/RFP

The most accurate predictor of future performance, is past success. Hazen and Sawyer, as a one-stop-shop for water and wastewater facilities, employs a staff that has extensive experience in a broad range of specialties, including the needs of the PVSC for the replacement of electrical power cables and appurtenances.

On October 29th, 2012, Superstorm Sandy pushed into the NY-NJ Metro area and caused widespread and unprecedented damage to coastal communities, low-lying residential neighborhoods, and public infrastructure. PVSC owns and operates a 330-mgd secondary wastewater treatment facility located in Newark, New Jersey, in the wake of Superstorm Sandy, many of PVSC's facilities suffered extensive damage from flood water that submerged the electrical equipment and distribution feeders located in basements, equipment galleries and utility tunnels. We understand that the necessary services include investigation, conceptual design, design services, design services during construction, and administration of PVSC funding. The work scope includes the provision of complete Design and Contract Documents, and coordination with FEMA representatives and requirements.

Hazen and Sawyer is currently providing similar

services to several facilities strongly affected by the storm, including the Bay Park Sewage Treatment. Plant (for the Nassau County Department of Public Works on Long Island) and the Manhattan Pump Station (for the New York City Department of Environmental Protection). Likewise, we provided flood recovery assistance for the wastewater treatment plant in the City of Clarksville, TN after severe rainfall that produced more than 12 inches of rain in Clarksville and more than 13 inches of rain in areas upstream of Clarksville, resulting in a historic flood.

# Newtown Creek WWTP Electrical Work

The 310-mgd Newtown Creek modified aeration plant was originally designed to achieve 60 to 70% BCD and SS removal. A multi-firm joint-venture consulting team, including Hazen and Sawyer, developed a comprehensive facilities plan and prepared construction documents for major expansion and renovation, which increased peak wet weather flow to 700 mgd. The final upgrade, while the plant remains in full operation, includes these items:

- Upgrading of the Brooklyn/ Queens Pump Station at Newtown Creek WWTP and Manhattan Pump Station in southeastern Manhattan, which include new screens, newodor control systems, upgraded electrical systems, and higher-capacity pumps and motors with variable-frequency drives.
- New battery of aeration and final settling tanks with new blowers and renovation of the two existing batteries.
- New disinfection building, new chlorine contact tank tanks, and new secondary Whale Creek outfail.
- New thickening centrifuges and new sludge handling facilities, including egg-shaped digesters, storage tanks, and gas holder.
- New 26.4kV, 54MVA electrical substation.
- New central residuals building, including secondary influent and studge screens, screenings, and scum and grit collection,
- New support building and renovated administrative offices, labs, and shops in the

main building.

- New 13.8kV electrical distribution system to power the aforementioned process areas.
- New 13.8kV, 28MVA emergency power distribution system

The program for the plant's final upgrade consisted of approximately 46 separate prime construction contracts awarded to complete the final upgrade. Most of these contracts were required to be completed by milestone dates established by a courtordered Consent Decree.

In addition to the preparation of construction documents for major expansion and renovation, other key tasks included assessment of upgrade/ expansion alternatives; activities required under the Uniform Land Lise Review Procedure, additional land acquisition, and capacity expansion analysis; site assessment; biological nutrient removal technology assessment; preparation of an EIS; a value engineering study of the recommended plan; and development and implementation of a public participation program.

# District of Columbia Water and Sewer Authority

Hazen and Sawyer has completed the evaluation and design of improvements to the nitrification facilities at the 740 MGD advanced wastewater treatment plant at Blue Plains.

The initial phase of the project entailed development of a Preliminary Design Report (PDR). In Phase 2 of the project, design documents were prepared to implement the recommended improvements identified in the PDR. The construction project consists of approximately \$100 M worth of process modifications and upgrades. In addition to the major treatment improvements, modifications to the plant's electrical power distribution system were a significant component of the total project.

Specifically, Hazen and Sawyer designed the modifications to Area Substation 3 including:

. The design of a new underground raceway

system and 15kV class power cable from the plant's main substation to Area Substation 3.

- The addition of one new 12/16/20 MVA
   13.8-4.16 kV liquid filled transformer and its respective 15 kV class, 1200 A primary vacuum circuit breaker at Area Substation 3.
- The installation of new 3000 A, 4.16 kV powers bus duct and bus to cable transition box.
- The construction of a rigid conduit receway system from the transition box to new blow-er switchear.

To provide a level of system reliability consistent with the rest of the plant's power system, the new indoor 5 kV class 3000 A blower switchgear was configured in a Main-Tie-Main-Tie-Main configuration. Each main vacuum circuit breaker is supplied from its respective transformer at Area Substation 3. Feeder circuit breakers complete with protective relays were configured to individually supply five (5) 4000 HP blowers. Additional feeder breakers were included in the line-up to re-supply two existing 500 kVA 4.16 kV-480 V power transformers serving existing motor control centers.

Detailed demotition and modification drawings were prepared for this project. Plan drawings showing the routing of all specific routing of all medium voltage power cables was included in the set.

#### Bay Park Sewage Treatment Plant: Superstorm Sandy-Related Work

The Bay Park Sewage Treatment Plant, owned by the NCDPW, which serves close to half a million residents, was among the many facilities that were damaged by flooding, power loss, and high winds. The Bay Park STP was partially submerged and the major electrical systems, pumping facilities, and processes were inundated with salt water from the nearby bay area. The plant shut down on October 30th, resulted in backup of raw sewage into local streets and into homes, further exacerbating the damage to local residents.

Hazen and Sawyer was notified by NCDPW at midnight during the storm and immediately mobilized a team of engineers and construction managers.

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We were on site at 2:00 am, assessing the situation and worked feverishly during and after the storm to assess the damage, triage critical needs, and re-establishing basic plant functions with the objective of restoring the Bay Park STP to full secondary treatment in order to comply with SPDES permit requirements.

The day after the storm, Hazen and Sawyer was named as the Program Manager for the Bay Park Emergency Recovery effort to lead a team of consultants and contractors to restore plant operation. By Thursday morning at 5:56 AM, November 1st, 2012, influent and Effluent pumping resumed, relieving the collection system and ceasing all street and home flooding due to the surcharged sewer system.

Hazen and Sawyer worked alongside County staff,

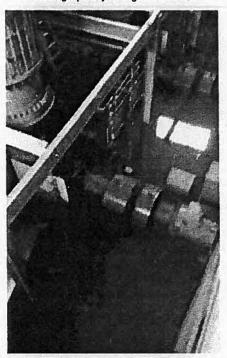


Flooded equipment and raw sewage at Bay Park STP in the Effluent Screening and Disinfection Building (ESDB).

seven days a week and two shifts per day (in many cases three shifts per day), to fully restore the plant's critical functions. The team developed an emergency repair program, which included a workflow process to carefully track the damage assessments, work orders, and costs. The team also established a set of process milestones and committed to ensuring that those milestones would be met.

We continued to make significant progress with the emergency restoration effort and by November 15th, 2012, the following progress was made on the Treatment Process Units:

- All influent bar screens were available for operation;
- All raw sewage pumps were available for operation;
- · Grit tanks were in operation;
- · Five of eight primary settling tanks were in



Flooding (15' depth) in the Bay Park Effluent Pumping Facility due to Superstorm Sandy, Image shows tide pumps and magnetic drives on lower level completely submerged in saft water.

# | DESIGN, DSDC, AND RESIDENT PROJECT REPRESENTATIVE SERVICES

- operation, including studge collection and pumping;
- All aeration tanks were available for operation; two process air blowers were in operation at full capacity (approx. 33,000 cfm), a third blower is available as standby;
- Return Sludge Pumps were in operation;
- Studge digesters were in operation;
- Temporary Sludge dewatering facility were in full operation;
- All effluent was being disinfected (manual dosing);
- . The Dechlorination system was operational.

On December 14th, our team had met each major milestone for the emergency actions to mitigate adverse health and environmental effects, and successfully restored the Bay Park STP to full secondary treatment.

Of note and of direct similarity to this project is the development of an electrical design to both stabilize the plant and harden the electrical backbone against future storms. Several of the engineers who worked to restore plant operations and who developed this design are included in our organizational chart, taking advantage of prior similar successful work.

#### Manhattan Pump Station: Superstorm Sandy Recovery

The Manhattan Pump Station (MPS) located adjacent to the East River was inundated by a 10-foot tidal



Manhattan Pump Station: Flooding of subgrade elevation

surge in the aftermath of Superstorm Sandy, The local flood level was approximately 2:75 feet above grade. Following the loss of utility power, floodwater overtopped the station's first floor. Saltwater rushed into the facility and the dry side of the station was rapidly submerged by approximately 30 feet of standing water. Critical mechanical and electrical equipment located on the four floors below grade was submerged, including main wastewater pumps, valve actuators; power panels, and local control panels.

in the immediate aftermath of Superstorm Sandy, Hazen and Sawyer conducted numerous site walkthroughs and developed a comprehensive damage assessment and recovery plan. Hazen and Sawyer coordinated with the Owner and Operating Bureau to prioritize the repair of damaged systems. Hazen and Sawyer simultaneously coordinated with FEMA representatives to categorize emergency, restoration, and mitigation measures as follows to seek FEMA reimbursement.

- Category B: Emergency Protective Measures taken before, during, and after a disaster to save lives, protect public health and safety, and prevent damage to improved public and private property.
- Category F: Restoration Measures taken to restore a facility to its previous condition.
- Sections 404 and 406: Mitigation Measures to enhance a facility's ability to resist similar damage in future events.



A local Manahitan Pump Station control panel damaged by

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Hazen and Sawyer coordinated with all project stakeholders to compile records for Category B work, identify Category F work, and design Section 404 and 408 work. The resulting work plan included 62 major, items and over 250 sub-tasks. Hazen and Sawyer issued design specifications and drawings to the four-prime contractors to provide the detailed scopes of work required. Hazen and Sawyer developed detailed cost estimate breakdowns in which every line item was categorized per FEMA standards in order to complete the FEMA project worksheets and provide budgetary values totaling \$17 million to facilitate reimbursement.

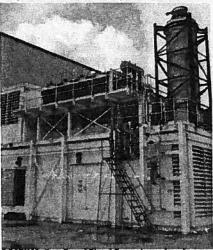
#### NYCDEP 26th Ward WWTP

Since 2003, Hazen and Sawyer has been providing both design and construction management services to the NYCDEP at its 85-mgd 26th Ward WWTP. This plant upgrade program, which is currently forecast to run through 2014, includes five major phases. The emergency generator project - Contract 13 - featured the installation of an emergency electrical generator to provide power redundancy to critical plant operations in the event of a blackout.



Partial canopy covering walkway in courtyard of emergency generator building at 28th Ward WWTP.

Hazen and Sawyer provided design and construction management for the NYCDEP's 28th Ward emergency generators, involving the replacement of two turbine units with three medium speed (900 rpm) units. As part of our efforts on that project, Hazen and Sawyer prepared a detailed Maintenance of Plant Operations (MOPO) plan, whereby the new generator units were installed seamlessly into the same location as the existing emergency generator station, without interruption to plant operations or impact on emergency power requirements. The project involved design and construction management services for



2.5 MW Medium Speed Diesel Generator undergoing shop test at the 20th Ward WWTP.

replacement of the plant's emergency generator.

Construction began in 2010 for replacement of gas turbine generators with medium speed diesel generators to satisfy the plant's emergency power demand. To secure Federal Stimulus funding, we accelerated the design and assisted the City to monitor and expedite the procurement process.

The Emergency Generator Building, located west of the Main Building, was constructed in 1992 under the Citywide Sludge Management Plan. The structure is defined by two distinct areas: an open "courtyard" area (without a roof or canopy) that housed two gas

\* DESIGN, DSDC, AND RESIDENT PROJECT REPRESENTATIVE SERVICES

turbine generators (operating on No. 2 diesel fuel), and an enclosed area with a control room, electrical or switchgear room, fuel oil pump room, with load banks on the roof.

Intended to increase reliability for maintaining treatment at the plant, the 26th Ward construction contracts include the following key elements:

- Replacement of two gas turbine generators with three new medium-speed diesel engine generator sets.
- Removal of two load banks and installation of one new load bank.
- · Replacement of the fuel transfer system.
- Replacement of emergency switchgear and modification of the primary substation.
- Installation of Interim standby power system and modification of temporary petroleum bulk fuel storage tanks.
- Installation of canopy system within the generator courtyard area.
- Construction of a Battery Room connected to the Emergency Generator Building for operation of emergency generator switchgear, emergency lights, and auxiliaries upon loss of utility power.
- Installation of one high speed diesel engine generator set for black start service.

This project was completed within budgetary constraints and schedule expectations, enabling the DEP to obtain the necessary federal funding.

## RESPONDENT'S PROPOSED TECHNICAL APPROACH

Hazen and Sawyer understands FVSC's urgent concern based on prior power cable feeder failures in the plant and that current feeders in service are prone to failure as well. We know that meeting the aggressive schedule is critical and that we herein commit to performing all of the tasks and subtasks required to carry out this project. In the Appendix, we provide a Scope of Services listed task by task, it shows that all of the activities outlined in RFP Attachment have been included.

#### **Project Understanding**

A functioning electrical system serves as a plant's central nervous system. We will seek to satisfy the immediate needs of PVSC as well as establish permanent solutions to PVSC's electrical system for the mitigation of future potential floods. Although much of the plant's electrical distribution equipment has been re-energized as part of the flood recovery effort, the integrity of many of the feeder cables has been compromised by their exposure to salt water. We will review and assess the damage for all feeder cables identified in the RFP and implement permanent solutions. Due to the critical nature of the equipment served, this project will be expedited to restore reliability to the portions of the electrical system identified within this RFP, in addition, as most if not all of this work is considered storm damage, Hazen and Sawyer will work with FEMA representatives to facilitate reimbursement for the services of this contract as well as complete the paperwork for approval of this electrical power cable replacement project. The required paperwork will include:

- A cost benefit analysis of the proposed alternatives for the replacement of each set of cables;
- A recommendation for the preferred method of replacement for each set of cables with justification and supporting documentation for

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the choice:

 The necessary information/documentation to modify or create new project worksheets for the FEMA reimbursement of the services for this contract.

Investigation and Conceptual Design: The key to this project lies in the initial task of investigation and conceptual design. Hazen and Sawyer will conduct an intensive and thorough field investigation, review and assessment of all existing cable routing conditions, the state of the existing cables, and verify the cable lengths identified in the RFP. Hazen and Sawyer will also conduct a minimum of five, three-hour workshops with PVSC staff to gain understanding and knowledge of the existing electrical cabling and associated equipment in the scope of this project. A complete understanding will be gained regarding the history, present condition, operation, lengths, serviceability; reliability, redundancy, criticality, and Code compliance of each affected cable. Hazen and Sawyer will identify all cables that require additional testing based off of the Initial inspections.

This knowledge and investigation report will be shared with the PVSC staff to better comprehend the task at hand leading to a quality project that will be delivered and constructed on time and within budget. Also, meetings with the PVSC staff will determine equipment shutdowns so as not to impact PVSC's ability to meet NJPDES permit requirements and/or Title V Air Permit requirements.

Hazen and Sawyer will determine the new cabling required and sizing based on the existing equipment loading derived from the existing plant drawings, operation and maintenance records, shop drawing records and confirmed via field verification, discussions with operations staff and projected future plant loads.

Once the complete understanding of all failed cables as well as cables that will remain in service is attained, the conceptual design alternatives will be compiled in the Conceptual Design Report. As mentioned under the MOPO section above, the installation of an interim power feeder distribution

system will benefit the project in multiple areas:

- Enable PVSC to issue multiple construction contracts to expedite the overall construction.
- Create the ability to demollah all existing falled feeders, falled raceway supports, and other obstructions clearing out the tunnel for the new work to proceed.
- Allow space for rerouting of existing auxiliary systems that will remain in service.
- Generate the flexibility for the permanent installation to create a separation of 'A' Bus feeders from 'B' Bus feeders.
- Provide minimal interference with the existing construction contracts on-site.

Hazen and Sawyer staff will compile all data, cost estimates, and design alternatives to meet the critical nature of the schedule. With a solid knowledge base established up front, our staff will be able to determine the permanent solutions to keep the treatment plant processes remaining operational during the construction/replacement phase as well as provide a design to mitigate the possibilities of future storm damage. All areas within the general vicinity of the existing location will be evaluated in order to take into account the new FEMA zoning maps as well as confirm the feasibility of the required new conduit runs. All new installations will adhere to all National Electrical Code requirements.

Design Services: The transition into the final design phase will be seamless as the concepts developed previously lay a solld foundation for the permanent installation. The construction documents including detailed specifications will be finalized in conjunction with the MOPO to ensure plant operations are maintained without interruption. The PVSC standard format front end documents will be tailored for this project along with the latest edition of the Standard General Conditions of the Construction Contract prepared by the Engineers Joint Contract Documents Committee (EJCDC) with supplementary conditions as required. Documents will be modified to include NJEIT funding requirements.

The contract drawings will contain detailed

8 DESIGN, DSDC, AND RESIDENT PROJECT REPRESENTATIVE SERVICES

information including plans, profiles, sections, details, elevations, one-lines, risers, and schedules of suitable scales and clarity to fully depict the intended installation and construction regarding all cable routing paths. This is critical as space is extremely restricted in some areas of the utility tunnels. Although congested, the utility tunnels remain the prime choice for replacement cable routing from a schedule and cost perspective as well as creating ease of testing and maintenance in the future.

Also, just as critical will be the construction phasing plans. These detailed plan drawings will be designed to sequence the work to not only keep the plant operational at all times, but also work around the many on-going construction projects in the plant. It is through these plans that Hazen and Sawyer will develop the segregation of 'A' Bus feeders from 'B' Bus feeders. Any temporary relocation of process utilities required due to construction phasing will be distinctly identified. Communication with the PVSC staff will achieve approval prior to de-energization and relocation of any process utilities.

Demolition plans will be developed in order to clearly identify the cables to be removed and their respective raceway system if applicable, These detailed drawings will also identify the limits of work and show details for the protection of remaining structures and equipment. Site plans will detail the maintaining of plant access roads, staging areas, and any structures required for temporary use. Other disciplines such as Structural (supports), Civil (temporary site locations), Architectural (material finishes) will provide drawings as required to create a complete project.

During the bid phase of the project Hazen and Sewyer will assist PVSC in soliciting of Bids as noted in this RFP. Other Bid Phase serives will include attendance at the Pre-Bld meeting, Preparation of the Bid Tabulation document and the Recommendation to Award letter.

Maintenance of Plant Operations (MOPO): The electrical distribution system is critical to maintaining plant operation and our Team understands

the importance of minimizing electrical service interruptions. Construction phasing plans will be developed in order to maintain current process requirements during the replacement and initialization of plant critical process equipment affected by the cabling replacement.

As part of our investigation and conceptual design, we will evaluate options for installing an interim power feeder distribution system to supply power to the plant. Once installed and energized, this system will allow the speed and flexibility of the permanent power feeder distribution system to be installed without interruption. Our intimate knowledge of the plant's electrical distribution system and its current state is key in coordinating this restoration project in order to minimize outages.

The work will be phased to minimize interruptions in service as well as minimize the impact on the current on-going construction projects within the plant.

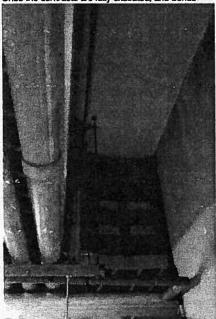
Confirmation of Existing Conditions and As-Built Drawings: When connection to and/or continued use of existing equipment and facilities is planned, as is the intent for the proposed project, it is important to field-confirm the dimensions of the existing facilities (e.g. tunnels, raceways) and their location, the availability of spare space, and the physical condition (i.e. age, functionality) of all equipment that is intended for continued use. Through intensive field investigations, we will confirm all existing and as-built conditions as related to these facilities and areas stated for re-use. This will minimize the probability for change orders during the construction phase of work and greatly reduce the risk of time delays and cost increases.

Construction Staging and Laydown: Construction staging areas often cannot fit where shown on the contract drawings. The contractor ultimately brings in more equipment than originally anticipated during the design phase. In addition, the location of the staging area may not be convenient for the job location - it may not have suitable utilities, may be too distant. or can be blocked by existing infrastructure, thus

causing delays and additional costs for installation of temporary utilities. To address this concern, our Team will proactively work with PVSC to identify areas that will be suitable for staging and laydown.

Client Communication: As with every successful project, open communication between all parties creates a better working atmosphere and eliminates unpleasant surprises. The project kickoff meeting will be held to review the work scope and construction methods with PVSC. Hezen and Sawyer will attend monthly progress meetings to review findings, options, and recommendations for the proposed work as well as brief PVSC on the status of the design effort as well as design document review meetings.

Design Services During Construction: Hazen and Sawyer will continue to assist the PVSC staff during construction to ensure the project is completed on-time and within the allotted budget. Hazen and Sawyer will review the bonds and insurance documents for contract compliance. Once the contracts are fully executed, and bonds



Existing stacked cable trays carrying storm damaged feeders.

and insurance documents are acceptable, Hazen and Sawyer, with the PVSC's approval, will issue the Notice to Proceed to the Contractor, which will establish the start date of the construction contract. In order to maintain the proposed schedule, Hazen and Sawyer envisions a minimum of five (5) construction contracts being awarded through the services contained in this RIFP. The first contract will be the installation of the temporary power system. This will be followed by the demolition of existing systems. With a clear area now given for the permanent systems, the next three contracts can be issued servicing the tunnel, ductbanks, and the dry side process areas respectively.

All manufacturers and vendors will be approved prior to shop drawing submittals. Shop drawing reviews will be expedited as the list of proposed shop drawings to be received has been included in the table at the end of this section. Should the contractor propose alternates from the contract documents, Hazen and Sawyer will evaluate the substitution by considering compliance with design objectives and technical feasibility. If the substitution is considered acceptable, Hazen and Sawyer will prepare a cost estimate of the credit due to PVSC.

Hazen and Sawyer will conduct monthly construction progress meetings as well as visit the construction site with regularity to review the progress and quality of the construction work. All observations will be recorded to advise the PVSC staff if work is progressing according to the contract documents or if other courses of action need to be taken. Hazen and Sawyer will review all contractor test reports to confirm that the results certified indicate compliance with the Contract Documents. Should any work be deemed defective, the PVSC staff will be advised and the contractor's work will be rejected.

As RFI's and RFC's are issued by the contractor, Hazen and Sawyer will expedite the responses and clarifications in order to maintain the construction schedule. Should a change order need to be issued as a result of the response or clarification, the change order package will be completed within 30 days and issued to the contractor for implementation.

10 | DESIGN, DSDC, AND RESIDENT PROJECT REPRESENTATIVE SERVICES

In addition, Hazer and Sawyer will assist the PVSC staff with contractor payment recommendations, start-up services, and provide record as-built drawings showing appropriate record information based on project annotated record documents received from the Contractor. In order to close out the project upon completion of construction, Hazen and Sawyer will assist in ensuring all contract documents, supporting documentation, change orders, submittals, as-built drawings, warranties, and similar documents are on file with PVSC, Hazen and Sawyer will then conduct a final inspection to determine if the completed work of the Contractor is acceptable so that final payment to the Contractor can be issued closing the contract.

Effective Project Management: Meeting Quality, Schedule, and Budgetary Requirements Effective project management involves two key criteria:

- Proven project managers who can manage projects within PVSC's scope, schedule, safety, budget, and quality objectives.
- Arming those project managers with the tools to provide PVSC with a high quality design that is delivered in accordance with our Project Delivery System (PDS).

From "day one" on the project, we will foster a strong tearning and partnering relationship with PVSC. The PDS has layers of important project delivery, quality management, regulatory compliance, and cost estimating steps that must be followed during all phases of the proposed assignments.

As shown in the Organization Chart in the Project-Team section, we are providing a well-organized Project Team to ensure efficient and effective communications between Team members and PVSC. In addition, we have assigned highly experienced project management personnel, consisting of senior staff who have worked on several other PVSC; projects.

Quality Management: A core element of Hazen and Sawyer's business practice is to provide quality

engineering services and products. Commitment to providing quality to our clients is an attitude that is inherent to Hazen and Sawyer's culture in every work. product we deliver. To support this commitment, Hazen and Sewyer has developed a comprehensive Quality Assurance Policy Manual to provide guidance to staff during the execution of projects undertaken by the Firm. Our QA/QC plan builds on our established approach and provides a policy and mechanism to ensure that quality assurance and control continues to be integrated into all of our projects. It will also be used to provide independent quality reviews of in-house design support. Our quality control approach defines and implements quality procedures to ensure adequate oversight of all submittals and enhance the quality of the work product. Key aspects include:

- Continuous supervision by our most experienced staff;
- Immediate review of completed work for accuracy and completeness; and
- Accurate documentation of all decisions,



Existing storm damaged feeders routed up to equipment.

SOCI/PROPOSAL FOR PVSC | 11

#### assumptions, and recommendations.

All quality reviews utilize Hazen and Sawyer's internal quality management checklists, cost estimating, environmental health & safety, constructability/biddability, MOPO, and operability reviews and signoffs. Quality audits are used to erisure that quality processes identified in the Quality Management Plan are being followed and that the identified corrective actions result in a quality product. If issues need to be addressed, a timeframe is set for corrective action and subsequent monitoring. A summary report of findings is documented for all quality reviews.

We understand that Improved Quality Assurance/ Quality Control is a global priority for the PVSC, to reduce the number and cost of change orders on its construction contracts, as well as the associated impacts on the project's schedule and budget. We will integrate QA/QC throughout the design and DSDC process, and not just at the "gatepoints" of the 25%, 75%, and 100% design completion milestones. It is our firm belief that the need to deliver a design expeditiously and integrate QA/QC and PDS requirements are not mutually competing objectives. While advancing work in parallel at multiple sites and delivering a top-quality, implementable design that minimizes changes during construction could be considered a challenge, it is one that we are wellprepared to meet.

Schedule Control: The key to successfully accomplish the goals of scheduling and project controls involves the development of an overall roadmap for the project and its associated resource requirements. The Hazen and Sawyer team will identify the priorities for each project task, subtask, and their associated key activities, and develop a master schedule to meet these priorities, recognizing the linkages and hierarchies between tasks and their potential schedule risks. We will assure that the work is broken down to a level of detail that accurately defines realistic and achievable task milestone and deliverables dates, thus affording us the ability to achieve effective schedule monitoring and control. The schedule will be reviewed regularly, and

adjustments will be made to expedite urgent work, add or reduce staff, and implement schedule recovery plans to provide project deliverables on or ahead of schedule. A baseline schedule with task-related resource loading will be developed to track, monitor, and report all investigations, inspections, testing, planning, design, and construction progress against actual performance. The result is a well-planned work sequence (or recovery plan when needed) that utilizes available float, maintains a constant focus on the dynamics of the critical path, and properly coordinates all of the activities within and across individual pursuits.

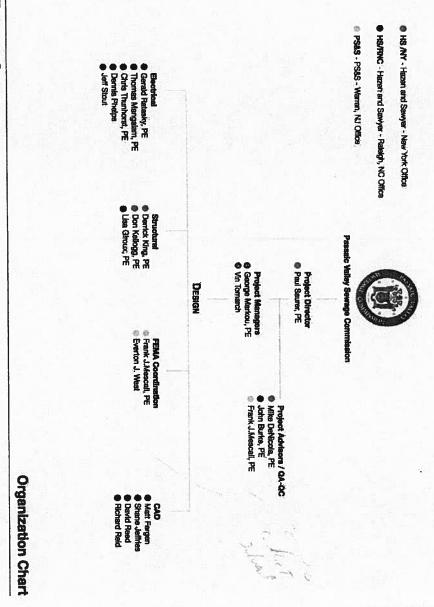
Budget Management: Our team will manage the preliminary and baseline project budgets and monitor the budget against the approved baseline. All budget variances will be identified early in the assignments and communicated to the PVSC PM. In addition, we will proactively manage the baseline budget by minimizing the addition of any new scope of work. All budget risks will be identified and mitigating actions taken, as appropriate.

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## RESPONDENT'S PROPOSED PROJECT TEAM

The following pages provide an organization chart and resumes for the proposed Project Team. We have indicated office locations for each team member. PS&S joins our Team to help with examination of existing conditions and coordination with FEMA. As discussed in preceding sections, we believe the key to this project lies in the conceptual design phase. The Raleigh team members will be relocated to the Newark, NJ area for the start of the project.

PS&S was retained by Witt/O'Brien's Associates to provide a team to assist in their efforts to help the Passaic Valley Sewerage Commission (PVSC) coordinate and document PVSC's efforts related to Super Storm Sandy recovery and relief. PS&S provided support for PVSC personnel tasked with providing information on damaged elements within the plant to FEMA Project Specialists. One major component of the assistance effort was related to the damaged piping and conduit and wiring located within the tunnels. Testing and investigation work for replacement of major portions of the tunnel conduit and cables was estimated to be \$43.0 M through PS&S's work. PS&S also assisted PVSC in the development of contract documents for the implementation of standby emergency power for the tunnel sump pumps and the provision of tunnel bulkheads for the isolation and protection of the tunnel infrastructure. Through these work efforts PS&S has an invaluable knowledge of the PVSC tunnel infrastructure making them a good addition to the Team.



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## PROPOSED SCHEDULE, LISTS, AND FORMS

In this section we provide our proposed schedule for the power cable replacement, as well as a specification list with proposed number of shop drawings. Directly following this section are all required forms per the RFP.

## Passaic Valley Sewerage Commission: Power Cable Replacement

TaskName	JIPIUIA	2014 -   12   J   J	A I S I O   N   D
RFP due			
Notice to Proceed	<u> </u>	111	
Draft Task 1 Report Due		• May, 15,	
Final Task 1 Report Due		• June, 1	
Design Completion			Sept. 19

**Project Schedule** 

HAZEN AND SAWYER Environmental Engineers & Scientists

TECHNICAL PROPOSAL | 1

	pecification List with Proposed Number of Shop Drawings			
02100	Clearing and Grubbing			
02200	Earthwork Adaptive			
02207	Aggregate Materials			
02276	Erosion and Sedimentation control			
	Erosion Controls (8)			
02510	Paving and Surfacing			
20000	Pavement, Curb, and Sidewalk material (10)			
02960	Traffic Control			
00010	Traffic Control Devices (4)	7.55		
02910	Final Grading and Landscaping			
05092	Metal Fastenings (3)			
15060	Hangers and Supports (8)			
16010	General Electrical Requirements	(100)		
16000		Contractor working drawings and point-to-point wiring diagrams (100)		
16020		Temporary Electrical system		
16026	Demolition Electrical	Temporary construction power layout (1)		
16035				
16036	Demolition drawings (50)			
16061	Grounding	Testing		
16071		Supporting Devices		
100/1				
16076		Conduit and tray supporting devices (10)  Labeling and Identification		
10070	Labeling and identification of conduit and cable (5)			
16121	Electric Wires and Cables			
10121	Wire and cables (5)			
16131	Electric Conduit System			
10101	Conduit, boxes, fittings (10)			
16132	Electric Cable Tray			
10132	Cable Tray (5)			
16133	Underground Ducts - Ducts in Concrete			
16134	Electric Manholes			
16900		Cable and Conduit Schedule		
JAY HIGH				
Electrica	al Drawing List			
E6	Single Line Diagram	1		
E7-E16	Riser Diagrams	10		
E17-E18	Miscellaneous Details - Hangers and Supports	2		
E19-E20	Miscellaneous Details - Cable Trays, Racks (2)	2		

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E21 E22

E23-E30

Typical Conduit Thru Wall and Thru Floor Details
Typical Grounding Details
Demolition Drawings (Utility Tunnel, Part Plan, Section)

1

8

**Electrical Drawing List** 

E31-E46	Construction Drawings (Utility Tunnel, Part Plan, Section)	16
E47-E66	Elevation/Profiles and Details at Intersections	20
	Subtotal Substitution of the Substitution of t	66
шшш	Temporary Power Distribution	Number
T1	Cover Sheet	1
T2	Drawing Index	N 1 = 1
T3	Symbols and Abbreviations	1100
T4	Site Plan	1
T5	Existing Distribution Power Layout	1
T6	Temporary Distribution Power Layout	
T7	Single Line Diagram	1
T8	Miscellaneous Details - Supports	1
T9	Typical Conduit Thru Wall & Thru Floor	1
T10	Typical Grounding Details	1
T11-T12	Demolition Drawings (Utility, Part Plan, Sections)	2
T13-18	Construction Drawings (Utility, Part Plan, Sections)	16
	Subtotal Substitution of the Substitution of t	28
	TOTAL	94

Structural/Ci	vil Drawing List	
Drawing Number		Number of Drawings (22x34)
C02	Site Plan	1
C02	Miscellaneous Details	2
MPT1	Maintenance and Protection of Traffic Notes and Plans	3
Total Number of Plans for the Final Design Set		4

# EXHIBIT C

### ATTACHMENT F

## P.L.1975.C.127 (N.J.A.C. 17:27) MANDATORY AFFIRMATIVE ACTION LANGUAGE PROCUREMENT, PROFESSIONAL AND SERVICES CONTRACTS

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor, where applicable, will send to each labor union or representative or workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to make good faith efforts to employ minority and women workers consistent with the applicable county employment goals established in accordance with N.J.A.C. 17:27-5.2, or a binding determination of the applicable county employment goals determined by the Division, pursuant to N.J.A.C. 17:27-5.2.

The contractor or subcontractor agrees to inform in writing its appropriate recruitment agencies including, but not limited to, employment agencies, placement bureaus, colleges, universities, labor unions, that it does not discriminate on the basis of age, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

### ATTACHMENT F (Cont.)

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

In conforming with the applicable employment goals, the contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

The contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents:

Letter of Federal Affirmative Action Plan Approval

Certificate of Employee Information Report

Employee Information Report Form AA302

The contractor and its subcontractors shall furnish such reports or other documents to the Div. of Contract Compliance & EEO as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Div. of Contract Compliance & EEO for conducting a compliance investigation pursuant to <u>Subchapter 10 of the Administrative Code at N</u>

# EXHIBIT D



CHAPT 51/EO 117-1

State of New Jersey
Division of Purchase and Property

Gene	rai Inforr	nation	For AGENCY	USE ONLY				77
Solicit	lation, RFF	or Contract No.		Award Amou	ınt			
Descr	ption of S	ervices						
Agen	cy Conta	ect Information						
Ageno	су			Contact Per	SON .			
Phone	e Number			Agency Em	ail			Transmit I significant appearing the con-
art 1:	Vendor	Information				1124		
Full L	egal Busin	eas Name	Hazen and Sawy	<b>BF</b>				
		(including trad	e name if applicable)					
Bush	ness Typ	Corporation	Limited Partners	hip X	Profe:	isional Corpo	ration   G	eneral Partnership
		Limited Liability	Company	Sole Proprietor	ship		Limited Li	ability Partnership
Addre	1 1	498 Seventh Avenu	Carte and the first of the late of the con-	Address 2				180
Cay		New York	State NY	[+]	Zip	10018	Phone	212-539-7000
Vendo	x Email	nbradley@hazena	indsawyer.com	Vendor FEIN		***************************************	- Land	and among the man days may an a signer
Dark Di	Dishlie	_aw 2005, Chapter 51/	Everythus Order 11	7 (2000) Carl		-	Silver -	
	certify as	THE MEN OF THE STREET STREET	Executate Older 11	, (2000) Gent	IIILEI	aon.		
a)	contract	pursuant to Executive Or in-kind contributions, con to the vendor, pursuant to se preceding 18 months;	pany or organization or the terms of Executive	ontributions, as Order 117 (200	set fo (8)	orth below th	at would ba	r the awaid of a
	(I) Ar	ny candidate committée ar Lieutenant Governor.	dior election fund of an	y candidate for	or ho	ider of the p	ublic office	of Governor
		ny State: county; municipa ny legislative leadership		tee, OR				
b)	During ti contribut	he term of office of the c ion to	urrent Governor(s), th	e below-named	i pers	on or organi	zation has r	not made à
	(it) Ar	ny candidate, committee a ny State, county or <i>munici</i> e commencement of said	pal political party comn					on preceding
c)	Within the person of	ne (8 months immediate r organization has not ma	lý prior to the first day de a contribution to	of the term o	l offic	e of the Go	vernor(s), t	he below-named
	An	y candidate, committee ary y State, county, <i>municipa</i> ndidate(s) in the last gube	I political party committ					essful gubernatorial
or contr that is a within th	olling more corporation he precedu	Prior to November 18, 2 e than 10 percent of the pro- tor profit) to any candid ng 18 months, during the to of Governor.	rofits or assets of a bus ate committee and/or e	ness entity (or lection fund of	10 pe	rcent of the evernor or to	stock in the	case of a business entity
	21/2009			1 0/3				manage of the second

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## ATTACHMENT D (Cont.)

Name of Recipient Date of Contribution		Address of Recipient  Amount of Contribution		
Type of Contribution (i.e. curren	cy, check, loan, in-kind		April 19 Company	
Contributor Name	Andreas	ومردود كالسائد وهو او دهو عليات	,	
Relationable of Contributor to the Contributor to the Contributor Address:	le Vendor			
City		State	Zip	
	if this form is not as necessary. Of	being completed electronically. herwise click "Add a Contribution	please attach pages for addition m" to enter additional contribution	e) contributions
				and the state of t
			the sale	
	2			

## ATTACHMENT D (Cont.)

Part 4: Certification			CHAPT 51/EO 1	
I ceruty mat, to the oes	ctions accompanying this form priors of my knowledge and belief, the subject to punishment,	r to completing this ce foregoing statements	ntification on behalf of the above-named busines by me are true: I am aware that if any of the stat	s entity. ements
contributions are made	avor accitional contributions are	not made. If there are	he date of approval, provided the ownership e any changes in the ownership of the entity or a lad and submitted. By automiting this Certifical porting responsibility and certifies that it will adh	odditional
(CHECK ONE BOX A				
(A) X i ann certifying stributable to	on behalf of the above-named but the entity pursuant to Executive C	isiness entity and all in Order 117 (2008).	dividuals and/or entities whose contributions are	
(B) I am certifying	on behalf of the above-named bu	usiness entity only.		
(C)   arm certifying	on behalf of an individual and/or	entity whose contribut	ons are attributable to the vendor.	
	hon lo			
Signed Name	1111 2/2-11	Print Name	Norman Bradley	
Phone Number	212-539-7000	Date	2/28/14	
Title/Position	Senior Associate			
Unit P.O. Box 039, 33	Ulsclosure form, either elect	ronically to co13/1/a Trenton: NJ 08625	dor Certification and Disclosure forms, to preas state nj. is, or regular mari at Chapt The agency should save the forms locally	or 51 Davies
CH51.1 R1/21/2009		Page 3 of 3		

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## **EXHIBIT E**

### ATTACHMENT E

## STATEMENT OF OWNERSHIP NOTICE FOR CORPORATIONS AND PARTNERSHIPS

Chapter 33 of the Public Laws of 1977 (N.J.S.A 52:25-24.2 et seq.) provides that no Corporation or Partnership shall be awarded any State, County, Municipal or School District contracts for the performance of any work or the furnishing of any materials or supplies, unless prior to the receipt of the proposal or accompanying the proposal of said corporation or partnership there is submitted a statement. The statement shall set forth the names and home addresses of all stockholders in the corporation or partnership who own ten percent (10%) or more of its stock of any class or all individual partners in the partnership who own ten percent (10) % or greater interest therein. If one or more such stockholder or partner is itself a corporation or partnership, the stockholders holding 10% or more of the corporation stock, or the individual partners owning 10% greater interest in that partnership, as the case may be shall also be listed. See below:

## STOCKHOLDER OR PARTNERSHIP DISCLOSURE STATEMENT

CONSULTANT: (CHECK ONE)	
SOLE PROPRIETORSHIP	PARTNERSHIP*CORPORATION
JOINT VENTURE	OTHER-specify
noiding 10% of more ownership of the ur	
(, x) I certify that no one Hazen and Sawyer	individual owns 10% or more of the undersigned,
NAME OF CONSULTANT	Paul D. Saurer
SIGNATURE OF PRESIDENT, VICE	PRESIDENT PRINT NAME
THIS STATEMENT MUST BE SIGN SIMULTANEOUS WITH THE CON SEWERAGE COMMISSION	VED BY A DULY AUTHORIZED COMPANY OFFICIAL STRACT TO BE ENTERED WITH PASSAIC VALLEY
TITLE.	
NAME: POLICE ADDRESS:	NAME: Non Bridley HOME: 31 Grand or 34 Habatas, A ADDRESS:
- CACCESTATION OF CAMPERSHIP.	PERCENTAGE OF OWNERSHIP: 56

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