THE Louis Berger Group, INC.

July 9, 2013

Judson Cross
Department of the Treasury
Division of Purchase and Property
9th Floor 33 West State Street
Trenton, NJ 08625

Re: RFQ787923S
Best and Final Offer (BAFO)
Response Date: Tuesday, July 9, 12 noon ET

Dear Mr. Cross:

As requested in your July 5, 2013 letter, The Louis Berger Group, Inc. is pleased to submit our best and final offer (BAFO) with respect to the referenced Request for Proposal (RFP). As we feel we have met the State's request for aggressive pricing reductions in this BAFO response for all price schedules, we look forward to the State's evaluation and will readily answer any questions or provide clarification regarding this BAFO if, and as needed.

We have attached our BAFO Price Schedules with revised prices, and have marked each schedule with our company's name and date. As our originally submittal individual GSA labor rates were already reduced from pre-established GSA compliant rates for our firm, in our efforts to be compliant with the State's BAFO request and assure that NJDEP and Treasury are getting the best technical and financial value for implementation and completion of these planned projects, we have now via this BAFO decreased those already reduced originally submitted labor rates even further, all the while maintaining all of our project commitments as previously stated in our original proposal. Other than the revised proposed line item unit and task pricing in the Firm Fixed Fee Schedules, and the revised Loaded Hourly Rate pricing provided in BAFO, no other aspect of the proposal has been changed.

We look forward to your review and evaluation of our attached BAFO. Should you have any questions or require additional information during your evaluation, please feel free to contact me at 973.407.1383 or at gkhan@louisberger.com.

Sincerely,

The **Louis Berger Group**, Inc.

Gul Khan, PE
Senior Vice President

BAFO Cost Quote Price Schedule 1: Program Manager - Firm Fixed Pricing (July 9, 2013)

(The Louis Berger Group - July 9, 2013)

Line No.	Description	Unit	Estimated Quantity (A)	Year 1 (B)	Year 1 Total (A) * (B)	Year 2 (C)	Year 2 Total (A) * (C)	Year 3 (D)	Year 3 Total (A) * (D)	BAFO Discount from Original Bid (%)
1	Program Start Up Section 3.1.1	Task	1	$ 84,095.47	$ 84,095.47	N/A	N/A	N/A	N/A	40.6%
2	Establish IT System Section 3.1.2	Task	1	$ 46,305.58	$ 46,305.58	N/A	N/A	N/A	N/A	44.5%
3	Maintenance of IT System Section 3.1.2	Month	12	$ 32,191.17	$ 386,294.04	$ 33,156.90	$ 397,882.86	$ 34,151.61	$ 409,819.34	22.7%
4	Training Section 3.1.7	Month	12	$ 26,746.72	$ 320,960.60	$ 27,549.12	$ 330,589.42	$ 28,375.59	$ 340,507.10	11.6%
5	Quality Assurance, Monitoring, & Tracking Sections 3.1.8 through 3.1.10	Month	12	$ 26,103.77	$ 313,245.28	$ 26,886.89	$ 322,642.64	$ 27,693.49	$ 332,321.92	17.2%
6	Document Management & Retention Section 3.1.12	Month	12	$ 21,662.94	$ 259,955.32	$ 22,312.83	$ 267,753.98	$ 22,982.22	$ 275,786.60	5.7%
7	Preliminary review before taskout and assignment to EAF Contractors	Each	20000	$ 310.20	$ 6,204,000.00	$ 319.51	$ 6,390,120.00	$ 329.09	$ 6,581,823.60	6.0%
8	Preliminary review before taskout and assignment to EAF Contractors (Volume 0 to 10,000)	Each	10000	$ 310.20	$ 3,102,000.00	$ 319.51	$ 3,195,060.00	$ 329.09	$ 3,290,911.80	6.0%
9	Preliminary review before taskout and assignment to EAF Contractors (Volume 10,0001 to 20,000)	Each	10000	$ 310.20	$ 3,102,000.00	$ 319.51	$ 3,195,060.00	$ 329.09	$ 3,290,911.80	6.0%
10	Preliminary review before taskout and assignment to EAF Contractors (Volume >20,0001)	Each	10000	$ 305.50	$ 3,055,000.00	$ 314.67	$ 3,146,650.00	$ 324.10	$ 3,241,049.50	6.0%
11	Specialized study reviews andassignments (Volume 0 to 10,000)	Each	10000	$ 601.60	$ 6,016,000.00	$ 619.65	$ 6,196,480.00	$ 638.24	$ 6,382,374.40	6.0%
12	Specialized study reviews andassignments (Volume 10,001 to 20,000)	Each	10000	$ 601.60	$ 6,016,000.00	$ 619.65	$ 6,196,480.00	$ 638.24	$ 6,382,374.40	6.0%
13	Specialized study reviews and (Volume >20,000)	Each	10000	$ 601.60	$ 6,016,000.00	$ 619.65	$ 6,196,480.00	$ 638.24	$ 6,382,374.40	6.0%
14	Section 106 and State HistoricPreservation Reviews (Volume 0 to 10,000)	Each	10000	$ 310.40	$ 3,104,000.00	$ 319.71	$ 3,197,120.00	$ 329.30	$ 3,293,033.60	3.0%
15	Section 106 and State HistoricPreservation Reviews (Volume 10,0001 to 20,000)	Each	10000	$ 310.40	$ 3,104,000.00	$ 319.71	$ 3,197,120.00	$ 329.30	$ 3,293,033.60	3.0%
16	Section 106 and State HistoricPreservation Reviews (Volume >20,000)	Each	10000	$ 310.40	$ 3,104,000.00	$ 319.71	$ 3,197,120.00	$ 329.30	$ 3,293,033.60	3.0%
Note: GRAND TOTAL shown equals the sum of Year 1, Year 2 and Year 3 subtotals. BAFO discount percentages shown are based on proposed reductions from originally bid line item and total amounts.							**GRAND TOTAL**		**$ 136,449,770.87**	**5.8%**

BAFO Cost Quote Price Schedule 1: Program Manager - Loaded Hourly Rate Pricing

(The Louis Berger Group - July 9, 2013)

Line No.	Labor Title	Hourly Rate Year 1	Hourly Rate Year 2	Hourly Rate Year 3	BAFO Discount from Original Bid (%)
Office,Management, and IT DevelopmentStaff					
17	Project Manager	$ 147.07	$ 151.63	$ 156.33	5.0%
18	Assistant Project Manager (2)	$ 114.00	$ 119.36	$ 123.06	5.0%
19	Company Chief Executive	$ 180.50	$ 204.51	$ 210.85	5.0%
20	Program Development Specialist	$ 114.00	$ 119.36	$ 123.06	5.0%
21	Facilities Operations Manager	$ 114.00	$ 119.36	$ 123.06	5.0%
22	Information Technology Manager	$ 114.00	$ 119.36	$ 123.06	5.0%
23	Data Base Manager	$ 133.09	$ 137.22	$ 141.47	5.0%
24	Programmer 1–Senior Level	$ 133.09	$ 137.22	$ 141.47	5.0%
25	Programmer 2–Junior Level	$ 79.65	$ 82.13	$ 84.67	5.0%
26	AdministrativeSupport Staff/Data Entry	$ 52.45	$ 54.09	$ 55.76	5.0%
27	Chief Accountant	$ 140.37	$ 144.72	$ 149.21	5.0%
28	Staff Accountant	$ 90.46	$ 93.26	$ 96.15	5.0%
29	Accounting Assistant	$ 61.56	$ 70.95	$ 73.14	15.0%
30	Contract Manager	$ 140.37	$ 144.72	$ 149.21	5.0%
31	Field Manager	$ 140.37	$ 144.72	$ 149.21	5.0%
32	Subcontractor Manager	$ 116.51	$ 120.12	$ 123.85	5.0%
33	Environmental Specialist1	$ 115.50	$ 119.08	$ 122.78	5.0%
34	Environmental Specialist 2	$ 69.54	$ 71.69	$ 73.91	5.0%
35	Environmental Engineer 1	$ 105.55	$ 108.82	$ 112.19	5.0%
36	Environmental Engineer 2	$ 86.79	$ 108.82	$ 92.26	5.0%
37	GIS Specialist 1 –Senior Level	$ 92.76	$ 95.63	$ 98.60	5.0%
38	GIS Specialist 2 –Junior Level	$ 61.35	$ 63.26	$ 65.21	5.0%
39	Historic Preservation Specialist1	$ 70.23	$ 70.23	$ 70.23	5.0%
40	Historic Preservation Specialist 2	$ 56.68	$ 58.43	$ 60.25	5.0%
41	Architect	$ 93.30	$ 96.20	$ 99.18	5.0%
42	Engineering Aide	$ 49.64	$ 71.88	$ 74.11	5.0%
43	Field Associate	$ 42.17	$ 42.17	$ 42.17	5.0%
44	Staff/Project Assistant	$ 58.32	$ 67.21	$ 69.29	15.0%

BAFO Cost Quote Price Schedule: 2 EAF Contractor - Firm Fixed Pricing (July 9, 2013)

(The Louis Berger Group - July 9, 2013)

Line No.	Description	Unit	Estimated Quantity (A)	Year 1 (B)	Year 1 Total (A) * (B)	Year 2 (C)	Year 2 Total (A)* (C)	Year 3 (D)	Year 3 Total (A) * (D)	BAFO Discount from Original Bid (%)
1	Base Price per application for Exempt (Volume 1 to 100) Section 3.2.2	Each	100	$ 522.50	$ 52,250.00	N/A	N/A	N/A	N/A	5.0%
2	Base Price per application for Exempt (Volume 101 to 200) Section 3.2.2	Each	100	$ 498.75	$ 49,875.00	N/A	N/A	N/A	N/A	5.0%
3	Base Price per application for Exempt (Volume >200) Section 3.2.2	Each	100	$ 475.00	$ 47,500.00	$ 489.25	$ 48,925.00	$ 503.93	$ 50,392.75	5.0%
4	Base Price per application (Fixed Fee) for Categorically Excluded Subject to 58.5 (Volume 1 to 100) Section 3.2.4	Each	100	$ 760.00	$ 76,000.00	$ 782.80	$ 78,280.00	$ 806.28	$ 80,628.40	5.0%
5	Base Price per application (Fixed Fee) for Categorically Excluded Subject to 58.5 (Volume 101 to 200) Section 3.2.4	Each	100	$ 722.00	$ 72,200.00	$ 743.66	$ 74,366.00	$ 765.97	$ 76,596.98	5.0%
6	Base Price per application (Fixed Fee) for Categorically Excluded Subject to 58.5 (Volume GT 200?) Section 3.2.4	Each	100	$ 688.75	$ 68,875.00	$ 709.41	$ 70,941.25	$ 730.69	$ 73,069.49	5.0%
7	Base Price per application (Fixed Fee) for non-tiered Environmental Assessments (Volume 1 to 100) Section 3.2.2	Each	100	$ 755.25	$ 75,525.00	$ 777.91	$ 77,790.75	$ 801.24	$ 80,124.47	5.0%
8	Base Price per application (Fixed Fee) for non-tiered Environmental Assessments (Volume 101 to 200) Section 3.2.2	Each	100	$ 717.25	$ 71,725.00	$ 738.77	$ 73,876.75	$ 760.93	$ 76,093.05	5.0%
9	Base Price per application (Fixed Fee) for non-tiered Environmental Assessments (Volume GT 200) Section 3.2.2	Each	100	$ 679.25	$ 67,925.00	$ 699.63	$ 69,962.75	$ 720.62	$ 72,061.63	5.0%
10	Base Price per application for Tier 2 Site Specific Reviews (Volume 1-100) Section 3.2.8	Each	100	$ 3,562.50	$ 356,250.00	$ 3,669.38	$ 366,937.50	$ 3,779.46	$ 377,945.63	5.0%
11	Base Price per application for Tier 2 Site Specific Reviews (Volume 101-200) Section 3.2.8	Each	100	$ 3,382.00	$ 338,200.00	$ 3,483.46	$ 348,346.00	$ 3,587.96	$ 358,796.38	5.0%
12	Base Price per application for Tier 2 Site Specific Reviews (Volume GT 200) Section 3.2.8	Each	100	$ 3,201.50	$ 320,150.00	$ 3,297.55	$ 329,754.50	$ 3,396.47	$ 339,647.14	5.0%
13	FEMA Addendum Section 3.2.3, 3.2.8	Each	UNK	$ 332.50	$ 332.50	$ 342.48		$ 352.75		5.0%
14	Reporting Functions Section 3.2.13, 3.2.14, 3.2.15	Month	12	$ 2,375.00	$ 28,500.00	$ 2,446.25	$ 29,355.00	$ 2,519.64	$ 30,235.65	5.0%
15	Environmental Impact Statement Fee Section 3.2.2	Each	UNK	$500,000.00	$500,000.00	$ 515,000.00		$ 530,450.00		16.7%
Note: GRAND TOTAL shown equals the sum of Year 1, Year 2 and Year 3 subtotals. BAFO discount percentages shown are based on proposed reductions from originally bid line item and total amounts.						GRAND TOTAL			$ 5,309,434.57	6.2%

BAFO Cost Quote Price Schedule 2: EAF Contractor - Loaded Hourly Rate Pricing (July 9, 2013)

(The Louis Berger Group - July 9, 2013)

Line No.	Labor Title	Hourly Rate Year 1	Hourly Rate Year 2	Hourly Rate Year 3	BAFO Discount from Original Bid (%)
	Office and Management Staff				
16	Principal	$ 180.50	$ 204.51	$ 210.85	5.0%
17	Program Director	$ 147.07	$ 151.63	$ 156.33	5.0%
18	Task manager	$ 114.00	$ 119.36	$ 123.06	5.0%
	Project Field Staff				
19	Field Manager	$ 114.00	$ 119.36	$ 123.06	5.0%
20	Field Professional	$ 55.21	$ 56.93	$ 58.69	5.0%
21	Principal/Senior EnvH.Scientist/Engineer/ Architec	$ 115.50	$ 119.08	$ 122.78	5.0%
22	Principal/Senior Biologist	$ 115.50	$ 119.08	$ 122.78	5.0%
23	Principal/Senior Historic PreservationSpecialist	$ 70.23	$ 70.23	$ 70.23	5.0%
24	Senior Hydrogeolgist	$ 128.73	$ 132.72	$ 136.83	5.0%
25	Junior Hydrogeolgist	$ 64.96	$ 66.97	$ 69.05	5.0%
26	Field Associate	$ 52.45	$ 54.09	$ 55.76	5.0%
27	Field Observer	$ 52.45	$ 54.09	$ 55.76	5.0%
28	Staff Environmental Scientist, Engineer,Architect	$ 86.79	$ 89.48	$ 92.26	5.0%
29	Hydrogeologist	$ 81.23	$ 92.80	$ 95.67	5.0%
30	Senior Technician	$ 57.98	$ 57.98	$ 57.98	5.0%
31	JuniorTechnician	$ 44.39	$ 44.39	$ 44.39	5.0%
32	Senior GIS Specialist	$ 92.76	$ 95.63	$ 98.60	5.0%
33	Junior GIS Specialist	$ 61.35	$ 63.26	$ 65.21	5.0%
34	Administrative Support/Data Entry	$ 56.60	$ 65.23	$ 67.25	15.0%

New Jersey's CDBG-DR Grant Program

Program Manager Contractor and Environmental Assessment Field Contractors for Environmental and Historic Preservation Reviews

June 27, 2013
RFQ787923S

THE Louis Berger Group, INC.

Cover Page	
Contract	Louis Berger is providing combined qualifications for program manager (PM) contractor and environmental assessment field (EAF) contractor contracts. Louis Berger understands that if selected for the PM contract, Louis Berger is conflicted out to perform EAF contract services.
Name of Bidder	The Louis Berger Group, Inc.
Address	412 Mount Kemble Ave. Morristown, NJ 07960
Telephone Number	973.407.1000
Federal Tax Identification Number	[redacted]
Contact Person	Gul Khan, PE Senior Vice President 412 Mount Kemble Ave. Morristown, NJ 070960 Telephone: 973.407.1383 Fax: 973.267.6468 gkhan@louisberger.com

THE Louis Berger Group, INC.

June 27, 2013

Judson Cross
Department of the Treasury
Division of Purchase and Property
9th Floor 33 West State Street
Trenton, NJ 08625

RE: Request for Program Manager Contractor and Environmental Assessment Field Contractors for Environmental and Historic Preservation Reviews New Jersey's CDBG-DR Grant Program

Dear Mr. Cross:

With this procurement, the New Jersey Department of Environmental Protection (NJDEP) is embarking on an extensive and complicated flood recovery effort involving many shareholders that are still in the midst of recovering from Superstorm Sandy - a historic natural disaster that in many respects is unlike and more challenging to recover from than just about any prior such disaster in the United States due to its unique and complex setting in New Jersey. Louis Berger is headquartered and a major community member in New Jersey. Despite the fact that many of its team members were significantly impacted by the storm and its aftermath, the firm immediately mobilized and became engaged by dozens of municipalities and counties – including, but not limited to, Ocean County, New Jersey as its debris management and public assistance and recovery consultants. We also opened a permanent office in Toms River, New Jersey to oversee Louis Berger Sandy response/recovery services. This type of local commitment and on-the-ground Superstorm Sandy experience that the Louis Berger Team has gained in communities stretching from the Jersey Shore to North Jersey leads the team to share the following observation with NJDEP, and the State of New Jersey.

We believe that NJDEP and the State of New Jersey need a team that has prior NJDEP environmental and historical preservation review/compliance experience, a team that brings a local New Jersey company led by New Jersey resident key staff who will provide the best practices, lessons learned, and performers from complex disaster recoveries of similar scale in other states. Given the expanse, depth, and uniqueness of the disruption being experienced by many of the Superstorm Sandy-affected communities, NJDEP will be well served by our local presence and vested interest in seeing that New Jersey leads the way in implementing a smarter and sustainable recovery and resiliency program.

To provide close proximity to NJDEP offices and access to our team, key staff made arrangements to open program management office (PMO) at 500 Horizon Drive, Suite 560, Robbinsville, New Jersey that is less than eight miles from NJDEP headquarters. The office is currently furnished and ready to be staffed to support this contract.

We understand the nature and scope of the work envisioned by the NJDEP for its **program manager contract.** Per NJDEP requirement, we will deploy our key team member and our proven project management/contract management (PM/CM) "toolkit" which will be specifically tailored to create the requisite administrative procedures and protocols for the effective oversight and tracking of all Environmental Assessment Field (EAF) contractors. We will ensure that all program policies and procedures are pulled together into a comprehensive project management plan (PMP) that will facilitate the implementation of all components, including a compatible integration with the NJDEP's Environmental Review Management System (ERMS). We will also provide historic preservation specialists to assist the New Jersey Historic Preservation Office (SHPO) with revisions.

As an addition to the program management contract, we are also submitting our qualifications for the **EAF contract**. We understand EAF contractors are to provide documentation in accordance with National Environmental Policy Act (NEPA) statutory requirements and Section 106 regulations primarily for Housing and urban Development

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(HUD), and Community Development Block Grant (CDBG)-funded undertakings as well as Federal Emergency management Agency (FEMA) Hazard Mitigation Grant Program (HMGP) undertakings for elevation of flood-affecting homes. The EAF contractor will review task orders supplied by the state contract manager or program manager to determine the appropriate level of effort for environmental and historic reviews, and then conduct those reviews. The environmental level of reviews may include exempt activities, CEST, CENST, environmental assessments (EA), and environmental impact statements (EIS), depending on the scope and complexity of the project. Historic reviews will involve assessment of Tier 1 and Tier 2 activities listed in the Programmatic Agreement (PA) among FEMA, New Jersey HPO, Advisory Council on Historic Preservation, and DCA; evaluation of properties with respect to National Register criteria of unevaluated properties, identification of consulting and interested parties, assessment of effect for historic properties, and coordination and development of Memoranda of Agreements with appropriate standard treatment measures. The EAF contractors will conduct Tier 1 and Tier 2 assessments under the approved unit cost schedules. If any additional studies are identified during field assessments, the EAF contractor will provide the program manager with written notification including a summary of the field assessment, description of the additional assessment necessary, justification and methodology for the work, and a cost quote to perform the work using the GSA hourly rates provided in the bid. The EAF contractor will create and maintain electronic copies of all forms and reports completed for each level of review. All status reports, documents, and data on the detail and progress of each review will be uploaded into the information management system developed by the state contract manager/program manager.

If awarded either program management or EAF contract, Louis Berger will be ready to meet NJDEP in 24-48 hrs and our PMO will be operational within five business days. We can also confirm that Louis Berger has on-going environmental contracts with NJDEP and does not have a record of substandard work and has not engaged in any unethical practices within the past five years. If awarded the contract, we will be responsible for the entire contract, including payment of any and all charges resulting from the contract.

We look forward to your review of our qualifications. Should you have any questions or require additional information during your review, please contact me at 973.407.1383 or gkhan@louisberger.com.

Sincerely,

The Louis Berger Group, Inc.

Gul Khan, PE
Senior Vice President

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MANAGEMENT OVERVIEW

MANAGEMENT OVERVIEW

TAB 1

1. MANAGEMENT OVERVIEW FOR PROGRAM MANAGER

Superstorm Sandy subjected New Jersey property owners and the state's businesses and infrastructure to catastrophic conditions, disrupting countless lives as well as the local economy. As a result, Sandy's aftermath was a near daily news headline in New Jersey, with many articles keeping citizen and stakeholder attention squarely fixed on how the recovery is proceeding and how the Governor's team, state agencies, and local government entities are progressing with regard to getting and keeping the recovery moving.

Because Louis Berger lived here before Superstorm Sandy, lived through Superstorm Sandy, and because Louis Berger will remain here as a continuing part of the local community long after the recovery is complete and out-of-state consultants have gone back to their home states, the **Louis Berger Team has a direct tie to and vested interest in this recovery.** Add to this the ongoing Superstorm Sandy recovery engagements and roles in places like hardest hit Ocean County along the Jersey Shore and urban centers like Passaic, Essex, Hudson, and Bergen counties, and the result is that the Louis Berger Team can bring NJDEP unparalleled local insight and stakeholder connectivity in addition to our national expertise in disaster recovery and federal funding programs (HUD-CDBG, FEMA Public Assistance, and Federal EDA Grants as well as SBA Loans) – again, **providing NJDEP with a best of both worlds for either Program Manager or EAF Contractor.**

Accordingly, Louis Berger understands the nature and scope of the work envisioned by NJDEP for its program manager on this initiative. Louis Berger will deploy project controls professionals and integrate the proven program management/contract management (PM/CM) "toolkit" which will be specifically designed to create the requisite administrative procedures and protocols for the effective oversight and tracking of all EAF Contractors. Louis Berger will ensure that all program policies and procedures are pulled together into a comprehensive project management plan (PMP) that will facilitate the implementation of all components of the program, including a compatible integration with the NJDEP's Environmental Review Management System (ERMS).

Why the Louis Berger Team is the only truly local and best choice for this contract:

Even before Superstorm Sandy, the Louis Berger Team was already selected and tasked by the NJ Office of Emergency Management (NJ OEM) to update and improve the state's general catastrophic planning (including pre-event) and post-event housing program plans; **Louis Berger has already been mobilized across the state from northern New Jersey down to the Jersey Shore by dozens of communities struggling to recover from Superstorm Sandy.** Louis Berger has also opened an office in Toms River to provide local resources to Ocean County and oher local clients. Louis Berger also has extensive experience work with NJDEP on multiple term contracts that include several preliminary environmental assessments of properties. Louis berger has in-house environmental and historic preservation specialists that are mostly based in New Jersey to provide local knowledge and experience during reviews and management of EAF contractors. **The Team is uniquely qualified to support NJDEP on this contract, which is right at the front end of assigning pivotal CDBG funding to applicants who are eligible and in need.**

> "We often work in post-disaster environments, but when Superstorm Sandy battered the eastern seaboard, the need hit much closer to home. We have had people on the ground working with the city since this storm hit and will continue to do what we can to support the region through a long recovery."
>
> *-Gul Khan, Senior Vice President*

Louis Berger will deploy its **"best practices"** project controls "toolkit" by integrating all seven program components of the NJDEP initiative. They are as follows:

1. **Neighborhood Enhancement Pilot Program** (120-300 Reviews)
2. **Fund for Rehabilitation of Small Rental Properties** (1,000 Reviews)
3. **Homeowner Reconstruction, Rehabilitation, Elevation & Mitigation-RREM** (6,000~12,000 Reviews)
4. **Supportive Services Program** (Undetermined Quantity of Reviews)
5. **Direct Loans for Impacted Small Businesses** (200 Reviews)
6. **Grants/Forgivable Loans to Small Businesses** (2,000 Reviews)
7. **Neighborhood & Community Revitalization** (100 Reviews)

Accordingly, Louis Berger's management approach for the program management component of the RFQ is holistically based, and will be designed specifically for NJDEP with all of the insights gained since October 29, 2012.

Louis Berger will develop a PMP that will incorporate all of NJDEP program policies into a detailed set of administrative procedures and by doing so, these will be fully operationalized into a user friendly, intuitive web based platform using proven methodologies, and SharePoint expertise.

The Louis Berger Team's CPM Scheduling experts will use Primavera P6 as the critical path scheduling software of choice for this initiative. The Louis Berger Team has extensive experience in the preparation and maintenance of CPM schedules for major infrastructure and construction projects for diverse public and private clients around the world. In fact, Louis Berger has more than 40 years of experience in program schedule development and management, and more than 30 years of experience in CPM Schedule management and litigation support services.

This expertise will ensure that the timetables and schedules for each of the EAF Contractors is fully vetted and integrated into an overall master schedule that will not only contain all of the core information provided in each task order developed in collaboration with the state contact manager, but also will be fully cost loaded for use in vendor payment management.

This fully loaded CPM schedule is at the heart of the PM/CM project controls "toolkit" and will be accessed via the SharePoint platform. The system will be designed specifically for NJDEP and will facilitate the integration and interface with the state contract manager, and NJ OIT data and web reporting management systems, using strategies complying with all standards and requirements specified by the state contract manager and NJOIT.

2. MANAGEMENT OVERVIEW FOR EAF CONTRACTOR

ENVIRONMENTAL REVIEW

Fast tracking environmental compliance and completing the Environmental Review Record (ERR) on the Upon Receipt of a Task Order from the state contract manager/program manager (SCM/PM), Louis Berger will check the SSHISP application for completeness and confirm the level of review assigned by the SCM/PM, or classify the level of review, followed by completion of the level of review form.

We will then perform a desktop environmental review using the NJDEP's GIS assessment tool or other tool approved by the SCM in accordance with the HUD environmental rules and regulatory procedures as set forth in 24 CFR 58, Part 55 for HUD-CDBG DR activities as well as the FEMA Hazard Mitigation and Grant Program. This will be done to determine whether a field assessment is warranted; if consultation with federal or state entities is needed; if floodplains or wetlands analysis is warranted; and whether the property in question qualifies as a historic property. The desktop review will indicate the appropriate level of environmental review as a exempt activity, categorical exclusion (CEST or CENST), EA or environmental impacts environmental review.

Exempt activities are unlikely to have direct impacts on the environment and would therefore, not be subject to the procedural requirements of the environmental regulations. Such activities would include but not necessarily be limited to; activities that do not have physical impacts or result in physical changes; purchases, technical assistance, environmental and other studies, information and financial services. ERR documentation for exempt activities would include a cover sheet explaining the project, determination of the level of review, finding of activity, and the 58.6 checklist.

Categorically excluded activities not subject to 58.5 or CENST would include, but not necessarily be limited to: supporting services to health care, housing services, rent and short term payments, assistance in access to state and federal services, operating costs for security, maintenance, utilities, supplies, training and other incidental costs, economic development activities, assistance to purchasers of existing dwelling units such as closing costs, interest buy downs, and other related payment costs; and affordable housing, predevelopment costs resulting in no physical impact such as loan commitments, zoning approvals, administrative costs, and loan commitments. To complete the environmental requirements for CENST projects, the ERR must contain a written determination that the activity or program is not categorically excluded and not subject to 58.5. For these activities, a public notice is not required nor is a request for the release of funds.

For the most part, categorically excluded activities subject to 24 CFR 58.5 or CEST, include the following activities: acquisition, repair, improvements, reconstruction or rehabilitation, or public facilities and improvements when the facilities and improvements are in the same location and will be retained in the same use without change in size or capacity of more than 20 persons; special projects of the removal of materials and physical barriers that restrict the mobility of and access possibilities to elderly and disabled persons. Those activities most applicable to the NJ CDBG-DR Grant Program would include; residential properties with one to four units for which density is not increased, land use is not changed, the building footprint is not increased or it is located in a wetland or floodplain; for multifamily building with more than four units, the density cannot be increased by 20 percent, does not change the use of the property, the costs are below 75 percent of the replacement value; and for non-residential structures (industrial, public and commercial), improvements would not change the size or capacity by more than 20 percent or the use of the site would change from current use. An individual action of no more than four units could include new construction, development, demolition, acquisition, disposition, or refinancing and would not include rehabilitation would be considered CEST. For properties with more than five units that are not contiguous sites, acquisition and leasing, disposition or loans on existing structures or for vacant land for which no change in use would be considered as CEST. For the properties considered under CEST, the ERR will need to include a written determination that the given activity or program meets the criteria for and is categorically excluded under 24 CFR 58. 35 (a). The written determination will include a description of the property; the applicable subsection of 58.35(a), a total estimated cost and determination as to whether or not there were any circumstances requiring compliance with other federal laws. For CEST properties, the HUD environmental review statuary checklist would be used to document the environmental findings. The checklist will be used to determine whether the project would convert to an exempt status, invoke compliance with other federal and state statutes and whether or not the project may result in impacts requiring additional or higher level of environmental review. Upon completion of the checklist, a determination will be made as to other compliance requirements that may require public notices prior to the release of funds.

For those **project activities that are neither exempt nor categorically excluded,** an EA would be prepared to document compliance with NEPA, HUD, FEMA and other related federal laws. For these projects, the latest NEPA environmental assessment checklist and environmental assessment work sheet will be prepared to complete the EA review process. To complete the environmental review requirements for an environmental assessment, the Modified Format II ES form will be completed. Upon completion of the Form and any needed coordination with applicable state and federal agencies, a determination will be made as to whether or not the project will result in a significant impact. As a results of this, a determination will be made as to whether or not the project or action significantly effects the human or naturally occurring environment; or that the project or action significantly impacts the human and naturally occurring environment thus requiring a higher level of environmental review such as an Environmental Impact Statement (EIS). This finding will need to be included in the ERR. For the most part and as anticipated for this contract, most of the projects that would be advanced as an EA will result in a finding that the project or action will not result in a significant impact therefore, not requiring that an EIS be prepared.

For those projects resulting in a no significant impact, a combined/concurrent notice of finding of no significant impact (FONSI) will be prepared and published along with a notice of intent to release funds after which the environmental certification will be submitted to HUD.

If the EA results in a finding that the project or activity will significantly affect the environment, then a higher level of NEPA review such as an EIS will be prepared. For the most part, an EIS will most likely be prepared for those project activities such as; those that are large scale and trigger density thresholds and substantial environmental impacts, those for which Finding of Significant Impact (FOSI) has been prepared; those projects such as nursing homes and hospitals with greater than 2,455 beds, those projects where the removal, destruction, conversion or substantial rehabilitation of 2,500 units or more occurs, those projects with the construction or siting of at least 2,500 sites, utility sewer or water projects that would serve greater than 2,500 housing units, and any project that would exceed the 2,500 unit threshold for nonresidential housing construction.

The ERR will be developed in both hardcopy and electronic format. The ERR essentially describes the project and each of the activities comprising the project, evaluates the effects of the project or activities on the environment, conducts the compliance with applicable state and federal statues and records the written determinations. One of the key components of the ERR is the input form the public and the incorporation of any comments presented by the public and the appropriate resolution to same.

Should a field assessment be necessary, a site reconnaissance will be required in accordance with the level of review that is require, e.g., for a site-specific environmental assessment or for further evaluation of Tier 2 site-specific reviews. If the field assessment indicates the need for additional assessment, we will submit a request to the SCM/PM outlining the scope, rationale and cost of such activities. Upon receiving a task order for additional assessment activities, such as engineering studies, ASTM Phase I or Phase II ESA, or asbestos, lead or radon testing, they will be implemented.

HISTORIC PRESERVATION REVIEWS

Desktop Assessment and Background Research

The initial desktop assessment will involve review of the program activity to ascertain whether it meets Tier 1 allowances listed in the PA. Louis Berger recommends that data as to what specific Tier 1 allowance has been met be considered as a data field in the information management system (i.e. Appendix B.I.A.5. Dewatering flooded developed areas by pumping). This information along with parcel data can then be merged into a standard exempt form for Tier 1 exempt activities and the completed form uploaded into the information management system. Specific information on why a property is exempt will allow for greater transparency and quicker review and oversight of Tier 1 activities.

If the activity does not meet Tier 1, the Louis Berger cultural team will conduct desktop reviews to ascertain whether subject properties have been evaluated with respect to National Register criteria and the level of archaeological sensitivity of the area. Louis Berger staff will utilize FEMA's New Jersey Historic Districts and Properties map in the initial desktop review. If no information on National Register status is found, Louis Berger staff will visit the HPO office to check inventory records and the status of any flood-recovery survey efforts being conducted that may not be available online. Louis Berger will also review local historic and cultural inventories and consult with local and county historic commissions to identify historic properties. Ideally, EAF Contractors should have easy access to any electronic inventory databases at HPO. An electronic copy of this inventory data can be easily linked to GIS and save unnecessary visits to the HPO. Upon completion of the desktop review, the cultural resource team will determine the appropriate course of action to meet historic preservation compliance. Louis Berger will review project activity and determine whether the project scope falls under Tier 2 allowances in the PA. If the project does meet the allowances, data from the master database will then be merged into the appropriate forms and uploaded into the document management system.

National Register Evaluation

If the project does not meet any allowances and the National Register eligibility status of the property is unknown, Louis Berger will initiate the consultation process to establish the area of potential effect and evaluate the property with respect to National Register criteria. Unless another process is established by the program

manager, Louis Berger will follow the two-step review process from the Small Cities Program Environmental Review Handbook for CDBG projects in New Jersey. A similar process was utilized in Iowa for the disaster recovery process in Cedar Rapids with good success. A letter for a given CDBG-DR program (i.e. homeowner rehabilitation) with all of the known participating properties would be submitted to HPO with the known eligibility status of each property. This letter would also outline proposed strategies and protocols for any impacts of the program on archaeological resources for consideration by HPO. The HPO would provide a response letter with their concurrence on the eligibility status of above-ground properties and proposed archaeological protocols. Thus, those properties previously identified as not eligible would be considered as exempt from further HPO review for non-ground disturbing activities. For those properties that were identified as historic, individual reviews using a form letter would be submitted to SHPO. Access to comprehensive historic resource and CDBG-DR program activity data from the information management system would greatly facilitate this process and allows both agencies an understanding of the scope and potential effect on historic properties of each program.

Unevaluated properties will be individually surveyed to determine eligibility for the National Register. Historic background research will be conducted, if necessary, as well as property-specific research. If available, digital Sanborn Fire Insurance maps will be obtained at the outset of the project for quick access during individual property evaluations. The appropriate architectural survey forms will be completed, if necessary, as part of the National Register evaluation process.

Site Specific Architectural Reviews

If the project is not exempt and historic, Louis Berger will, under consultation with the program manager, conduct site-specific reviews to revise scopes of work to meet Tier 2 allowances in the PA, minimize or eliminate adverse effects to historic properties, or assess potential adverse affects of the project on historic properties. Louis Berger will prepare appropriate documentation to submit to HPO and consulting and interested parties for their review.

Archaeology

Projects involving ground disturbance in previously undisturbed areas will be reviewed by qualified archaeologists for archaeological sensitivity. Desktop review will determine if the activities meet Tier 1 or Tier 2 allowances and indicate the level of archaeological investigations necessary during the demolition. If the project is within an archaeologically sensitive area or at some depth, archaeologists will consult with HPO to determine the level of effort necessary. A PA or letter of agreement, developed prior to Section 106 reviews, that specifies the level of effort for broad types of undertakings such as demolition and new construction would streamline the archaeological review process. Normally, any field excavation, however small, necessitates a full Phase I archaeological report. For this contract, Louis Berger suggests that an end-of-field e-mail or a standard negative-results form be delivered to HPO for approval be created to deliver to HPO for approval so that individual projects can move forward in a timely manner. A summary report that includes all results of testing for each CDBG-funded program would then be compiled and delivered to HPO.

It is recommend that the Louis Berger Team provides an on-call archaeologist to address any unanticipated discoveries during demolition or new construction. While areas may be modeled as low potential for prehistoric archaeological deposits, ground-disturbing activities conducted in an urban context often uncover episodic filling and early historic deposits such as foundations of former buildings or cisterns and privies.

Standard Treatment Measures

Initial consultation with HPO may determine whether undertakings with adverse effects are reviewed by HPO individually or in groups. We recommend that the HPO be notified of each adverse effect in a template letter and that mitigation consultation for the undertakings be grouped together by action (i.e., CDBG-funded demolitions, rehabilitation, and new construction). Mitigation of grouped projects allows for larger alternative mitigation measures such as architectural surveys of un-affected areas, National Register nominations, historical publications, and historic structure reports in support of rehabilitation of significant properties in the community.

Additional Levels of Assessment

If the field assessment indicates that additional studies are required to determine the presence of historic properties including archaeological sites or the affect of the project on a property, Louis Berger will notify the

program manager/state contract manager in writing of the additional study, provide a rationale for the additional study, and indicate the scope and cost of the effort.

Environmental Review Staffing and Capacity Plan

Louis Berger has the size and capacity to operate as EAF Contractor at Level 1, providing more than 3,000 reviews of varying types within the first 90-180 days. Louis Berger has the environmental and historic preservation staff to oversee and direct a larger team of reviewers to conduct Tier 1 reviews. Additional staff will be hired to conduct Tier 1 and/or 2 reviews and any additional studies that may be required.

For environmental and historic preservation reviews, Louis Berger will maintain a team of 20 reviewers to review properties for Tier 1 allowances and conduct desktop assessments. It is estimated that each person can review between 4 and 6 properties a day depending on the complexity of the projects.

Louis Berger currently employs six architectural historians and 17 archaeologists that will head the Tier 2 historic preservation review team; although Louis Berger has position announcements for an architectural historian in the Morristown, New Jersey office and archaeologist in the Kansas City office. Louis Berger has almost 40 environmental review specialists including environmental scientist, industrial hygienist, hydrogeologist, and biologists. Additional staff will be hired, as needed, to conduct Tier 2 environmental and historic preservation reviews and potentially complete architectural surveys of flood-affected areas, which would streamline the overall review process. With these staffing levels, Louis Berger estimates that it can complete six to eight field assessments per day for each field associate. Six additional staff members will be dedicated to compiling and uploading forms and additional review information for both Tier 1 and Tier 2 assessments into the information management system.

Task managers will be responsible for preparing written notification, justification, and cost estimates for any additional levels of assessment that may be necessary and for conducting all assessments approved by the state contract manager/program manager.

Timeframe for reviews (times listed below include time for review and compilation of forms for submittal):

EAF Capactiy Plan	
Reviews	**Time**
Desktop Assessment	2 days
Field Assessment (Tier 2)	5 days
Additional Testing	2 weeks
CENST	1 week
CEST	2 weeks
Tiered EA	1 month
Non-Tiered EA	6 to 12 months

EAF Capacity Plan for Week and Month		
Task	**Weekly**	**Monthly**
Desktop Assessment	250	1,000
Field Assessment (Tier 2)	250	1,000
Additional Testing	10-20	40-80
CENST	200	800
CEST	100	400
Tiered EA	20	80
Non-Tiered EA	N/A	N/A

Tab 2

START-UP TEAM

START-UP TEAM

TAB 2

Program Manager Key Personnel			
Contract Role	Proposed Staff	Percent of FTE Work to Commit	Office Location
Office, Management, and IT Development Staff			
Project Manager	Rich Harding	100%	Morristown, New Jersey
Assistant Project Manager 1	Sachin Apte, PE	100%	Morristown, New Jersey
Assistant Project Manager 2	Ryan Cleary, PE	100%	Morristown, New Jersey
Company Chief Executive	Gul Khan, PE	25%	Morristown, New Jersey
Information Technology Manager	David Orsini	100%	Morristown/Trenton, New Jersey
Database Manager	Naga Yedlapalli	100%	Morristown, New Jersey
Chief Accountant	Bob Rosengarth	100%	Robbinsville, New Jersey
Staff Accountant	MaryBeth McMahon	100%	Morristown, New Jersey
Accounting Assistant	Ruirong Jin	100%	Morristown, New Jersey
Contract Manager	Charles Cessna	100%	Morristown, New Jersey
Project Field Staff			
Field Manager	Camilla Deiber	100%	Kansas City, Missouri
Subcontractor Manager	Christopher Watt, PG	100%	Morristown, New Jersey
Environmental Specialist 1	Fameeda Ali, CHMM (task manager)	100%	Morristown, New Jersey

Environmental Assessment Field Contractor Key Personnel Team			
Proposed Staff	Contract Role	Percent of FTE Work to Commit	Office Location
Office and Management Staff			
Principal	Gul Khan, PE	15%	Morristown, New Jersey
Program Director	Richard Harding	100%	Morristown, New Jersey
Task Managers	Fameeda Ali, CHMM (Environmental)	100%	Robbinsville, New Jersey
	Edward Samanns, PWS, CE (Biology/Ecology)	100%	Robbinsville, New Jersey
	Camilla Deiber (Historic Preservation)	100%	Robbinsville, New Jersey
Project Field Staff			
Field Manager	Christopher Watt, PG	100%	Robbinsville, New Jersey
Field Professional	Stacey Barron, AICP	100%	Robbinsville, New Jersey
	Deborah Van Steen		Morristown, New Jersey
Principal/Senior EnvH./ Scientist/Engineer/Architect	Michael McWatters, PE	100%	Robbinsville, New Jersey
	Bruce Lockwood	100%	Robbinsville, New Jersey
	Julian Fernandez-Obregon	100%	Robbinsville, New Jersey
Principal/Senior Biologist	Craig Hanlon, PWS, CD	100%	Morristown, New Jersey
	Ann Folli, PWS	100%	Morristown, New Jersey
	Thomas Shinskey	100%	Morristown, New Jersey
	Emily Esche	100%	Robbinsville, New Jersey
Principal/Senior Historic Preservation Specialist	Zachary Davis, RPA	100%	Morristown, New Jersey
Senior Hydrogeologist	Tavis Lloyd	100%	Morristown, New Jersey
Junior Hydrogeologist	Bradley Hewitt	100%	Morristown, New Jersey
Field Associate	Bruce Lockwood	100%	Morristown, New Jersey
Field Observer	Lauren Hayden, RPA	100%	Morristown, New Jersey
Staff Environmental Scientist, Engineer, Architect	David Cuomo	100%	Morristown, New Jersey
	Aisha Mir		Morristown, New Jersey
	Maureen Rabbitt		Morristown, New Jersey
Hydrogeologist	Andrew Wreschnig	100%	Morristown, New Jersey
Senior Technician	David Cuomo	100%	Morristown, New Jersey
Junior Technician	Gene Virgilio	100%	Morristown, New Jersey
Senior GIS Specialist	Morgan Raskin	100%	Robbinsville, New Jersey
Junior GIS Specialist	Stephanie Kromhout	100%	Robbinsville, New Jersey
Administrative Support/Data Entry	Amanda Lowe	100%	Robbinsville, New Jersey

Tab 3

CONTRACT MANAGEMENT

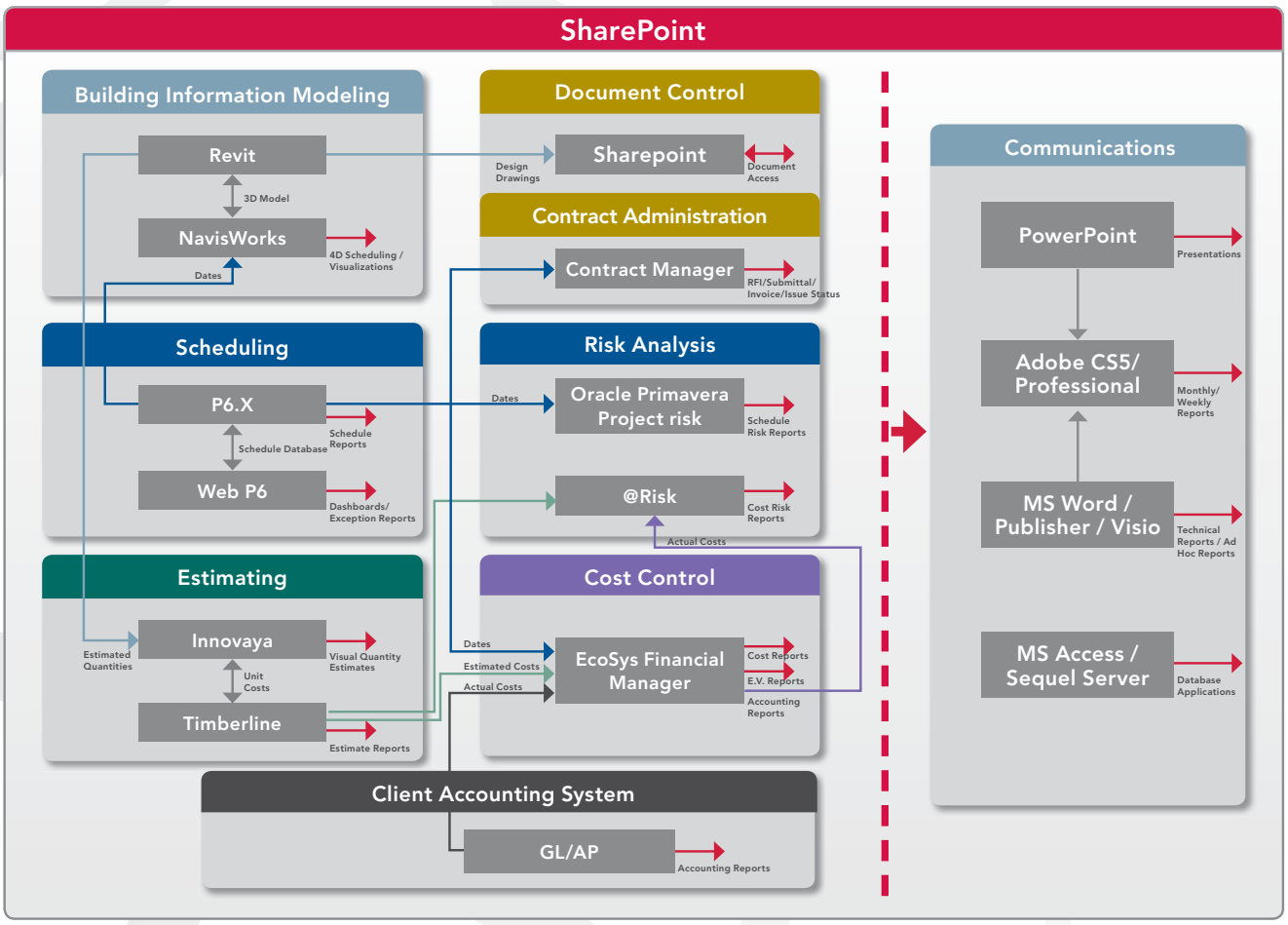
CONTRACT MANAGEMENT

TAB 3

PROJECT CONTROL SYSTEMS

As the DCA requires NEPA environmental reviews to be conducted and compliance demonstrated prior to committing HUD financial assistance to any damaged property as part of its' action plan, the need for an overarching methodology for project controls as part of an integrated management plan is essential and vital to the success of the program.

Louis Berger's approach to project control systems is to use applications to process core management and technical information, and a SharePoint platform to integrate this data and make it easily accessible to project staff and other stakeholders. When a management assignment begins Louis Berger will deploy a small team of highly skilled project control specialists to review existing client systems, the IT infrastructure at the project site, and the types of applications that best suit the specific project management organization. A needs analysis is approved by the client, software is licensed, and selected systems are implemented. The implementation specialists are subsequently available, as needed, for consultation and support. The following illustrates the applications the Louis Berger typically deploys:



Louis Berger uses SharePoint to integrate data and make it easily accessible to project staff and other stakeholders.

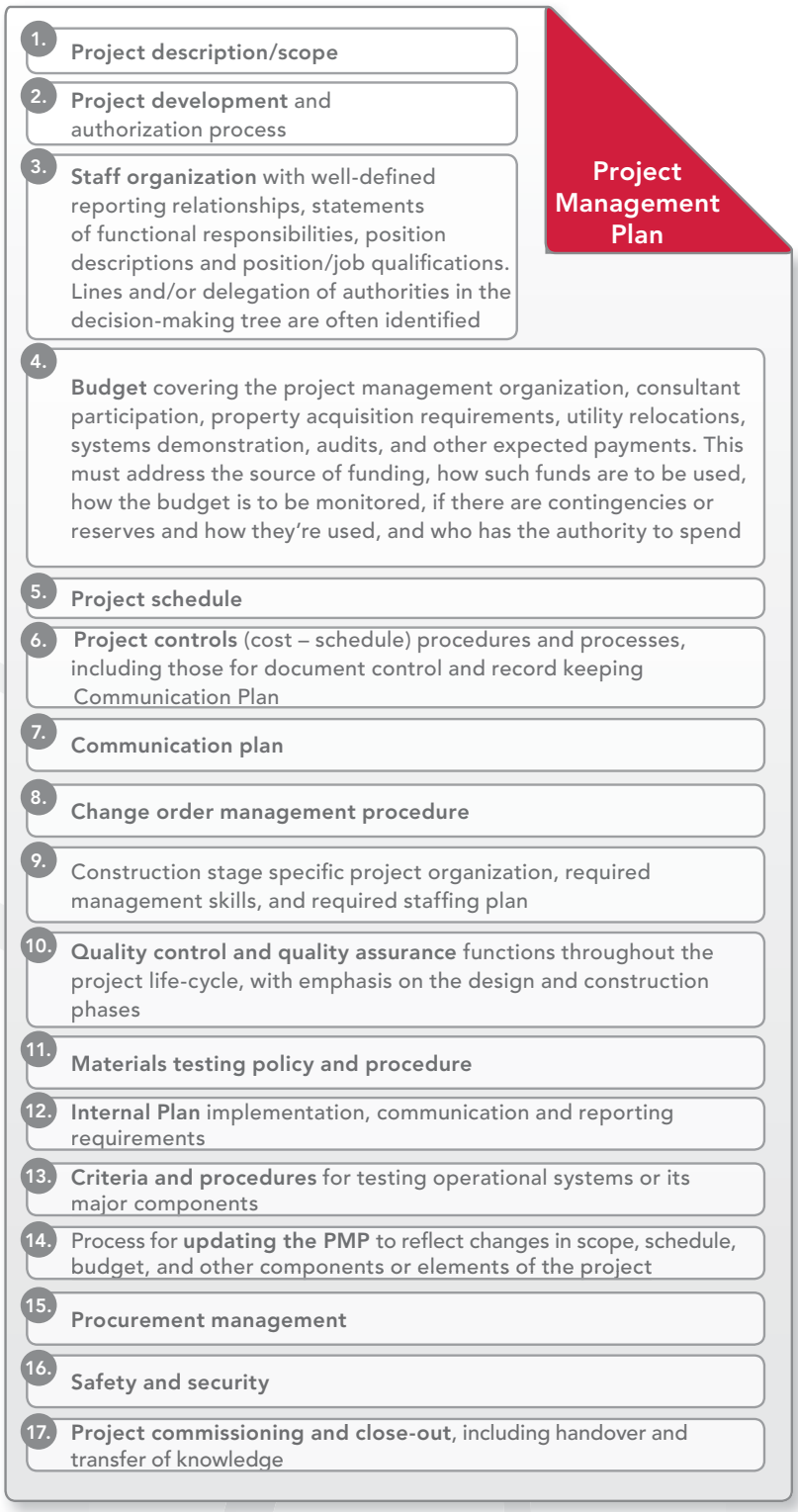
PROJECT MANAGEMENT PLAN

Effective project management begins with a project management plan (PMP). The Louis Berger Team prepares a PMP for every one of its major programs. The PMP will define Louis Berger's relationship with NJDEP during the engagement process and issuance of Task Orders approved by the state contract manager and will describe the project management delivery system in detail. Louis Berger will develop an effective and efficient PMP that meets NJDEP's stated objectives of:

- Operationalizing the program policies into a detailed set of administrative procedures
- Implementation of all program components

Louis Berger has significant experience in writing, developing, and maintaining PMPs for major capital improvement work such as the:

- Newark Liberty International Airport Redevelopment Program
- World Trade Center Transportation Hub and Vehicular Security Center
- National September 11th Memorial and Cultural Facility
- 1 World Trade Center
- I-93 Improvement Program, Salem - Manchester, New Hampshire
- Houston Airport System



INFORMATION MANAGEMENT, PROJECT REPORTING, AND PUBLIC RELATIONS

SharePoint is widely used as a collaborative tool to develop and exchange documents, provide a group calendar of events, track issues, and support overall document control functions, among other things. Over the past two years, the capabilities of SharePoint have grown exponentially to support a wider set of functions. **The Louis Berger Team has taken full advantage of this emerging technology by creating a program management reporting template, developed solely on the SharePoint platform.**

The template can be implemented in a single project mode or used to synchronize information across a complex program of many projects or components, such as this NJDEP environmental review initiative. **This system will be designed for NJDEP, and will facilitate the integration and/or interface with other state contract manager, New Jersey Office of Information Technology (NJOIT), state or federal data, web reporting, or content management systems using strategies complying with all standards and requirements specified by the state contract manager and NJOIT.** A central navigation graphic will be used to direct the user across all of the following seven groupings of estimated environmental review assessments:

1. **Neighborhood Enhancement Pilot Program** (120-300 Reviews)
2. **Fund for Rehabilitation of Small Rental Properties** (1,000 Reviews)
3. **Homeowner Reconstruction, Rehabilitation, Elevation & Mitigation-RREM** (6,000~12,000 Reviews)
4. **Supportive Services Program** (Undetermined Quantity of Reviews)
5. **Direct Loans for Impacted Small Businesses** (200 Reviews)
6. **Grants/Forgivable Loans to Small Businesses** (2,000 Reviews)
7. **Neighborhood & Community Revitalization** (100 Reviews)

The main objective is to have all project control functions integrated and available through a core reporting portal. The template incorporates a high level of graphics, pictures, and video. It focuses on performance indicators, variances, and exceptions as opposed to high-volume reporting. A three-level drill down design will allow the user to navigate from a summary indicator, such as a plan view of the nine counties affected across the State to a set of geographically mapped task orders, and then finally to each activity or record. Within that record, the user will have access to each task order, which will include information including, but not limited to, the following (as noted in the RFQ):

- Physical addresses of properties
- Property site descriptions
- Nature and description of grant requests, e.g., scope of rehabilitation, repairs or reconstruction or anticipated scope of activity
- All previous data collected by the sub-recipient's program manager that may be used to assist in the environmental assessment
- Property contact information, i.e., the grant applicant
- Tasks specified including the type and level of assessment to be performed
- The time permitted to complete the tasks specified for each environmental review to be performed for each property

Accordingly, The SharePoint application is very intuitive, and it is therefore not necessary to have knowledge of other project control systems such as Primavera, Contract Manager, MS Project, or any number of cost and document control systems. These source systems are used to publish the data that SharePoint displays. In some cases, direct access to these systems' database records has been established, allowing for real time information. This means that the number of licenses for the source systems has been reduced since many project staff can retrieve all the data they require from the SharePoint site rather than utilizing individual project control systems. In addition, we have taken full advantage of SharePoint's native capabilities—issue tracking, document version control, and other coordination features. Access to the system is account- and permission-based, using the Internet. Operation requires good bandwidth, as streaming video is a standard feature. Each implementation starts with the template and functions are then selected depending on the nature of the work. The menu of functions includes: a dashboard of key performance indicators; status pages with graphical percent completes; scheduling; cost control; issues; contract administration (requests for information, submittals, invoices, and changes); risk analysis; site panorama; animations; progress photos and videos; document control; and project coordination.

These applications provide key performance Indicators that will offer management staff visibility of the status and issues surrounding the project to prevent minor issues from becoming major problems. In a user-friendly environment, managers can access project details necessary to make decisions and to keep projects on schedule and within cost/budget constraints. The applications the Louis Berger Team uses offers nearly 150 standard reports and the capability to easily customize project-specific ones, to track budgets, cost variances and project changes, and to analyze comparative trends and cause/effect among multiple projects.

SharePoint Program Management Sites. Louis Berger is developing SharePoint sites for the Jersey Shore Housing Program/ Grant "reNew Jersey Stronger' and the Ocean County: Sandy Recovery and Capital Planning projects. These sites are used as a centralized location to track schedule, budget, and progress.

PowerPoint presentations are also an important means of reporting and communicating program/project status, successes, and issues. The Louis Berger Team is a reliable source of high-quality technical presentations to internal and external audiences for diverse clients around the world.

The Louis Berger Team's skills in the development of computer-generated graphic arts and models have also been of benefit to our clients' leadership. The firm has prepared project animations, developed newsletters, and prepared art content for use on client Intranet and extranet web sites. **Louis Berger staff brings years of experience that provide depth and substance to the content, which presents the material in ways that maximize audience understanding and retention.**

Records Management functions include:	
	Encompass all records having a bearing on the project's activities including procurement and technical aspects
	Establish policies for standardizing required forms, reports, procedures and manuals
	Ensure smooth and consistent distribution of information throughout the project organization on a need-to-know basis
	Expedite all required or outstanding information
	Ensure security of vital records
	Meet legal retention requirements
	Withdraw and destroy obsolete duplicates

EDMS will serve as Louis Berger's tool for storing all project records. Louis Berger has used a variety of EDMS software including LiveLink, ProjectWise, and Sharepoint.

The Louis Berger Team frequently uses Primavera's Contract Manager to manage the invoice approval process and record payments. Contract Manager facilitates the preparation and negotiation of monthly payment requisitions.

The Louis Berger Team normally establishes connections to existing client enterprise applications, including JD Edwards®, Oracle® Projects, and SAP®, accounting and estimating. The Contract Manager software comes complete with an XML API that will enable the creation of an integrated solution that best fits your requirements and allows data to flow seamlessly into other systems being employed on the project.

The Louis Berger Team later reviews with the contractor, all invoices and verifies that the proper backup is available for later audit. The team assesses the progress or services performed on each invoice and make a recommendation for payment. Louis Berger also review the weekly payroll records submitted by the contractor. The project management plan establishes guidelines for processing all payment applications. The contractor will need to submit progress reports and/or schedule updates along with the appropriate quantity in place documentation to accurately portray the current status of their contract. The cost documentation and accounting records are maintained in a form suitable for audit and that can be easily interfaced with the client financial management system.

RECORDS MANAGEMENT

An electronic document management system (EDMS) serves as an efficient and reliable tool for a project team – regardless of their location– to store, retrieve, and make immediately available from a central database, project documents, drawings, construction photographs, graphics, and other project records. The Louis Berger Team has extensive experience in the design, implementation and operational management of EDMS for diverse management assignments including airport redevelopment programs, urban infrastructure programs, and major construction projects around the world. The Louis Berger Team has experience with a wide range of EDMS software including LiveLink, ProjectWise, and SharePoint.

Note that The Louis Berger Team also implements an effective document control facility to manage paper files. The document control facility is the central repository for printed information generated and received by program staff. In addition to the appropriate accommodations for boxed or shelved paper files, the document control facility normally incorporates a resource library and mail room.

RFIS AND SUBMITTALS MANAGEMENT

For managing and monitoring review performance and the flow of documents regarding requests for information and contractor submittals, The Louis Berger Team uses Primavera Contract Manager in conjunction with

SharePoint. This software is also used to prepare variance reports that identify the status of reviews (ball-in-court, completed, overdue, etc.). This information is available at all project desktops and serves as an important tool for managing timely response to requests from the field.

DAILY REPORTS

Daily reports will be generated by all EAF Contractors' field inspectors using mobile devices which in turn are linked with SharePoint. Louis Berger has developed this functionality in order to properly capture all activity at site. Reporting includes: Weather; Work Activity; Instructions to Contractor;; Testing Activity; Quantity Tracking; Equipment Utilization; Field Force; Issues' Visitors; Photos; and relevant attachments. After the report is reviewed and approved it is locked and archived. These documents are subsequently available to support claims negotiations.

BUILDING INFORMATION MANAGEMENT

The use of the building information management (BIM) process results in a digital representation of a building or other structure that incorporates three-dimensional (3-D) modeling of the structure's components. The model is linked parametrically to practically all aspects of a project, including the structural design and analysis; scheduling; and material, labor, and operational cost data. Sophisticated versions of BIM make it possible to virtually construct an entire project in digital format before breaking ground at the job site. The model is used to coordinate the design and to transfer construction documents during the design and construction phases. Ultimately it is transferred to the owner for use in operating and maintaining the building. Because BIM models are created to scale in 3D space, all major systems can be visually checked for conflicts or interferences. This process can verify that piping does not intersect with steel beams, ducts or walls thus eliminating up to 95% of all related change orders and RFI's. Linking the model with schedule information facilitates staging and phasing analysis very early in the project's design. Time is the 4th dimension in the "4D Scheduling" technique.

PROGRESS REPORTING

A comprehensive set of reports is developed for internal management and stakeholder communications. This includes: the preparation of weekly, monthly, and other project controls reports as required; reflecting the original projects' scope, budget, and schedule; to advise the project management staff on overall project progress, key issues, critical path items, achieved deliverables, completed tasks, as well as identified variances; and recommend corrective actions where progress or cost overruns are anticipated. Reports are in bulleted narrative format with graphical representations of schedule, cost and earned value status. Project photos are featured where appropriate. Reports are available in both hardcopy and electronic formats, and are updated, depending on the nature of the project, on a daily, weekly, or monthly basis. As part of the reporting function various standard narratives, fact sheets and graphic descriptions of the individual projects, are maintained. In parallel, graphics and statistical data can be developed for both internal and external presentations. This type of information is also formatted in a way that is compatible with the Program website outlining the status of the work, milestones accomplished, progress photographs, related press releases, and associated web links.

Tab 4

POTENTIAL CHALLENGES

POTENTIAL CHALLENGES

TAB 4

Based on the Louis Berger Team's experience both on-the-ground in New Jersey on the Superstorm Sandy recovery, and our prior and ongoing experiences with other major disaster recoveries in the Northeast on projects like the World Trade Center and Downtown Restoration Program in New York City, to Hurricanes Katrina and Ike recoveries in the Gulf region, we have noted several potential problems that might be anticipated during a contract.

Relying on a team led by a firm and supervisory staff from outside of New Jersey is a potential problem. This approach has been taken elsewhere (e.g., on Gulf region recoveries) with delayed and/or unsatisfactory results due to local learning curve and resourcing challenges, as well as over-reliance on doing it the same way they have always done it just because that is what they are comfortable with and are therefore prone to defend and repeat that same approach regardless of whether it really works. As highlighted earlier in this proposal, new Jersey can avoid this problem by selecting the Louis Berger Team because:

- Louis Berger has **key staff with experience on other recovery programs executed elsewhere** (i.e., know what worked, and what did not)
- Louis Berger is **already here and deeply involved.** Louis Berger staff lives here and the Team is heavily staffed from its headquarters in Morristown, New Jersey. The team is currently working on the post-Sandy recovery, and has been hired by NJ OEM to update the State's catastrophic planning documents, including pre-and post-event sheltering and housing plans.
- Louis Berger is **currently providing support to the current DCA prime contractor** on the front end of this program, namely the Superstorm Sandy Housing Incentive Program (SSHIP).
    - As part of the prime contractor's support team, Louis Berger is providing facilities and asset management services and has played a huge role in ramping up and establishing the regional offices for the SSHIP in the nine counties most affected by the storm (Atlantic, Bergen, Cape May, Essex, Hudson, Middlesex, Monmouth, Ocean, and Union).
    - Project controls and application intake monitoring is another key area of support that Louis Berger is providing to the prime contractor on the SSHIP effort. In this role, Louis Berger has become acutely aware of the key parameters and metrics that need to be achieved as part of this HUD funded, Community Development Block Grant (CDBG) Program.

Chief among the potential problems on a large, highly complex, post-disaster housing recovery program such as that which confronts New Jersey for the Superstorm Sandy recovery are:

- Insufficient and/or delayed local resources
- Insufficient and/or delayed local stakeholder outreach, understanding, and engagement
- Over-reliance on key "experts" and "plug-and-play" approaches used elsewhere that either in part or in their entirety do not fit New Jersey and the Superstorm Sandy well – because it is very different, and requires being smarter and faster.

Hiring the Louis Berger Team for this contract is a means for New Jersey to solve these key problems. The Louis Berger Team is based in New Jersey with almost 1,000 local staff, and since the employees live here and are already working across the state on the Superstorm Sandy recovery, Louis Berger understands what makes it different, who the key stakeholders are, and what things used elsewhere may not work.

LOUIS BERGER IS OPTIMALLY PREPARED AND POSITIONED FOR THIS CONTRACT

Louis Berger has **key staff** with experience on other recovery programs executed elsewhere (i.e., know what worked, and what did not)

+

Louis Berger is already here and deeply involved. Louis Berger staff lives here and the Team is heavily staffed from its headquarters in Morristown, New Jersey. The team is currently working on the post-Sandy recovery, and has been hired by NJ OEM to update the State's catastrophic planning documents, including pre-and post-event sheltering and housing plans.

+

Louis Berger is currently providing **support to the current DCA prime contractor** on the front end of this program, namely the Superstorm Sandy Housing Incentive Program (SSHIP).

Among the potential challenges of the program is the mismatch that exists between the standard formula for distribution of HUD funds and the areas around the state that have received most of the damage (and attention). Specifically, the goals and objectives of the HUD funded, CDBG programs, targets eligibility applicants to be compromised of 50% to 70% Low to Moderate Income (LMI) households. Based on the hardest hit areas of the NJ Shore, many of the affected communities and towns are comprised of secondary/vacation homes (not eligible) and households with incomes that are outside the LMI guidelines. Having said that, the solution to the potential challenge of meeting and/or exceeding the LMI goals and objectives lies with the success of the Application Intake Outreach process (via the DCA program that Louis Berger is directly supporting) and the rapid response to those initial applicants that are eligible for the CDBG funding. Louis Berger offers the symbiotic relationship to the database of the DCA program metrics and can leverage that information into an efficient manning process and project controls methodology in managing the EAF contractors/vendors.

With a successful "ramp-up" of the initial stages of this program, Louis Berger can foster a continuing, positive New Jersey community outreach effort, which will facilitate the rapid deployment of future funding tranches for the Housing Recovery Initiative.

Louis Berger gained valuable insight into how to streamline the review process during conducting environmental and historic preservation reviews for CDBG funded flood-recovery projects in Cedar Rapids. Louis Berger recommends that the DEP consult with HPO, FEMA, HUD, and any other federal agencies that may have undertakings in the flood-recovery area to develop procedures and protocols to conduct reconnaissance surveys of properties in flood-affected areas to streamline subsequent reviews. In the wake of the Cedar Rapids 2008 flood, FEMA, HUD, and the Iowa SHPO entered into an agreement allowing such surveys to streamline reviews to great effect. We also recommend consultation with HPO on appropriate archaeological modeling and methodologies for broad types of CDBG-DR projects to reduce or eliminate impacts to archaeological resources. Formally agreed upon methodologies and approaches could be incorporated into a CDBG-DR PA or into the inter-agency agreement suggested above. Other challenges encountered in Cedar Rapids Include:

- Becoming bogged down conducting National Register eligibility determinations for individual properties.
- Conducting site-specific reviews to determine eligibility of each property can be a time-consuming process when thousands of properties need to be processed.
    - Louis Berger recommends consultation with HPO to develop reconnaissance survey methodology for flood-affected areas to streamline subsequent reviews. In the wake of the Cedar Rapids 2008 flood, FEMA, HUD, and the Iowa SHPO entered into an agreement allowing such surveys to great effect. Whole neighborhoods, usually grouped by plats or developments, were surveyed by SOI qualified professionals. Survey reports with brief historic context statements were submitted to HPO for review and concurrence with survey findings. These eligibility findings then served as a basis for all subsequent flood-related undertakings, regardless of the agency. These surveys also established potential districts that may require more intense scrutiny for specific actions, such as property elevation or new infill construction. While FEMA conducts reconnaissance surveys for their flood-recovery efforts, the scale of the disaster often means the agency can't complete surveys of all areas in a timely fashion.
- Homeowners sometimes complete rehabilitation work that doesn't follow SOI standards for rehabilitation, especially if the property has not been identified as historic.
    - Louis Berger would recommend consultation with SHPO that establishes processes and protocols for inadvertent actions that have adverse effects to the building.

Tab 5

ORGANIZATIONAL SUPPORT AND EXPERIENCE

ORGANIZATIONAL SUPPORT AND EXPERIENCE

TAB 5

THE LOUIS BERGER GROUP, INC.

Louis Berger is a global technical services management consultancy headquartered in Morristown, New Jersey with offices around the state including an office in Toms River, New Jersey. Louis Berger's consulting and advisory services expertise runs the gamut across every relevant technical discipline, including disaster and emergency services, program management, planning, environmental, engineering, architecture, economic development, and financial, risk, claims and forensic consulting. Louis Berger provides these services across the United States and in more than 70 countries around the world for both government and corporate clients.

Louis Berger has maintained its headquarters in New Jersey for more than 50 years and has been engaged by state of New Jersey governmental agencies on hundreds of prior contracts. As a recent and most relevant example, Louis Berger already holds (and competitively won prior to Superstorm Sandy) the New Jersey Office of Emergency Management (OEM) Statewide Contract as the State's Technical Assistant Contractor - Public Assistance/FEMA Program Services (including catastrophic planning) consultant [State Index # T-2686]. Under this contract, Louis Berger was already scoped and is currently being funded to provide the state of New Jersey with the following critical plans/updates under the category of "General Catastrophic Planning Services" pursuant to contract Line Numbers 00001 to 00004: State Logistics Plan; Pre-event Shelter and Post-event Housing Plan (emphasis added); State Debris Management Plan; and, External Affairs Plan. This contract also contains contract Line Number 00005 which is for General Catastrophic Planning and On-call Logistics/Task Order/Skill Set purposes. Through this contract and its "Cooperative Purchasing" mechanism, Louis Berger has already had this contract used by multiple counties (including Ocean County) and municipalities from the Jersey Shore to northern New Jersey.

Superstorm Sandy subjected New Jersey property owners and the state's businesses and infrastructure to catastrophic conditions, disrupting countless lives as well as the local economy. As a result, "Sandy's Aftermath" is a near daily news headline in New Jersey, with many articles keeping citizen and stakeholder attention squarely fixed on how the recovery is proceeding and how the Governor's team, state agencies, and local governmental entities are doing with regard to getting and keeping the recovery moving.

Because the Louis Berger Team lived here before Superstorm Sandy, lived through Superstorm Sandy, and because Louis Berger will remain here as a continuing part of the local community long after the recovery is complete and out-of-state consultants have gone back to their home states, the Louis Berger Team has a vested interest in this recovery. Add to this our ongoing Superstorm Sandy recovery engagements and roles in places like hardest hit Ocean County along the Jersey Shore and urban centers such as Passaic County in northern New Jersey, and the result is that the Louis Berger Team can bring NJDEP unparalleled local insight and stakeholder connectivity in addition to national expertise in disaster recovery and leveraging associated federal funding programs.

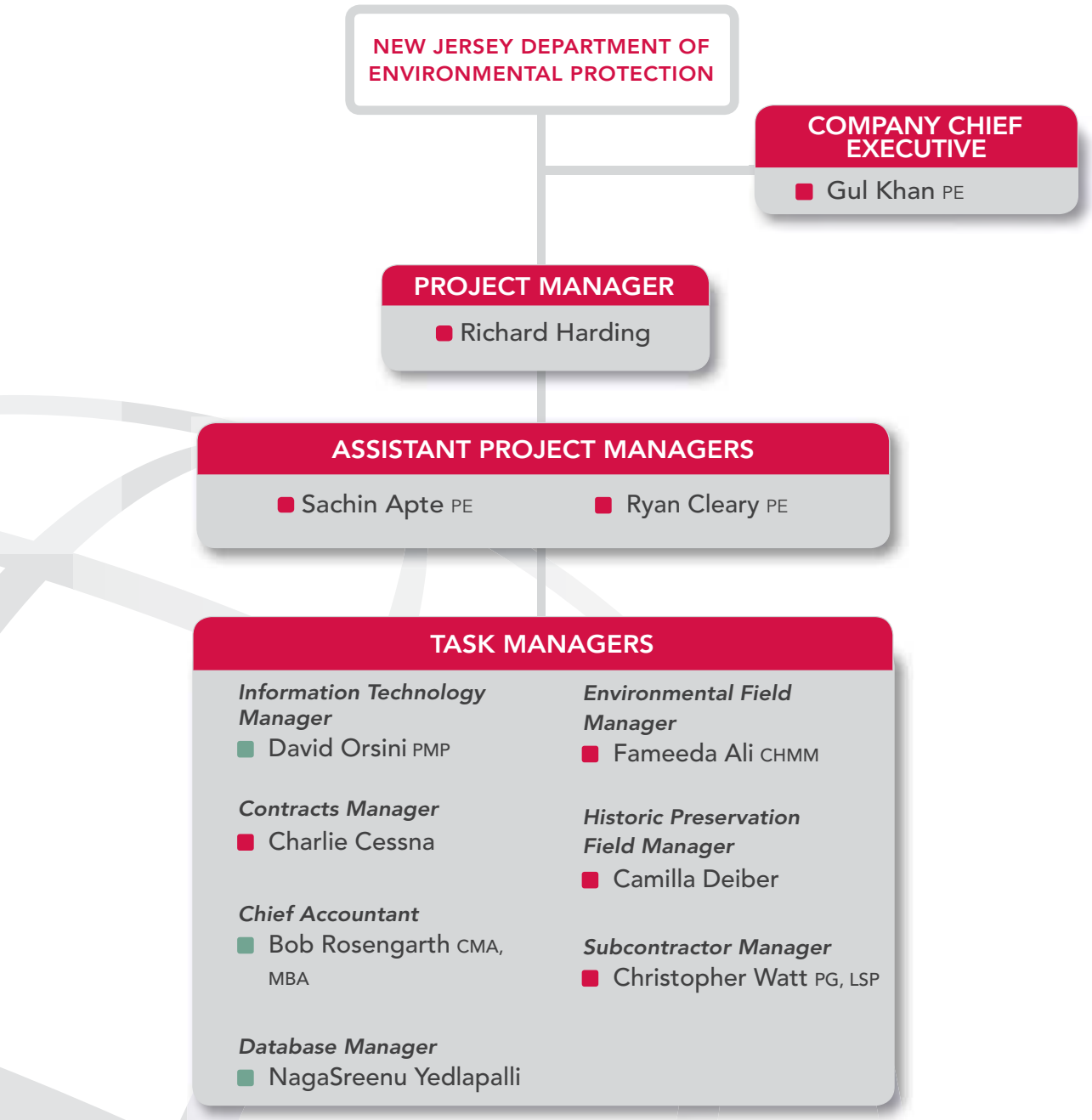
Louis Berger has worked on similar contracts throughout the United States. The reference information below gives evidence to Louis Berger's qualifications and ability to perform the services requested in this RFQ.

Louis Berger volunteers handing out warm clothes to Sandy victims left without power.

References

City of Waterloo Community Planning and Development	Aric Schroeder, City Planner 319.237.4366 aric.schroeder@waterloo-ia.org
Ocean County Administrator	Carl Block 609.290.4014 Cblock@co.ocean.nj.us
City of Cedar Rapids	Paula Mitchell 319.281.5852 p.mitchell@cedar-rapids.org
New Jersey Department of Environmental Protection (NJDEP)	Ed Putnum 609.984.2990 Ed.Putnum@dep.state.nj.us
New Jersey Treasury DPMC	Rick Flodman, 609.984.3629 richard.flodmand@treas.state.nj.us

START UP/PROGRAM MANAGER CONTRACTOR KEY PERSONNEL



Program Management Support Staff	
Project Role	No. of Current and Proposed Staff
Project Manager	1
Assistant Project Manager 1	1
Assistant Project Manager 2	1
Company Chief Executive	1
Program Development Specialist	2
Facilities Operations Manager	2
Information Technology Manager	1
Database Manager	1
Programmer 1 - Senior Level	2
Programmer 2 - Junio Level	4
Administrative Support Staff/Data Entry	10
Chief Accountant	1
Staff Accountant	2
Accounting Assistant	5
Contract Manager	1
Field Manager	2
Subcontractor Manager	2
Environmental Specialist 1	10
Environmental Specialist 2	20
Environmental Engineer 1	5
Environmental Engineer 2	10
GIS Specialist 1 - Senior Level	5
GIS Specialist 2 - Junior Level	10
Historic Preservation Specialist 1	10
Historic Preservation Specialist 2	20
Architect	4
Engineering Aide	10
Field Associate	5
Staff/Project Assistant	5

Managed 20 subconsultants with 10,000 to 25,000 applicants.

ENVIRONMENTAL ASSESSMENT FIELD CONTRACTOR KEY PERSONNEL

KEY

- Louis Berger Group
- PARS Environmental

EAF Support Staff	
Project Role	No. of Current and Proposed Staff
Principal	1
Program Director	1
Task Managers	3
Field Manager	3
Field Professional	10
Principal/Senior EnvH./Scientist/Engineer/Architect	10
Principal/Senior Biologist	5
Principal/Senior Historic Preservation Specialist	10
Senior Hydrogeologist	2
Junior Hydrogeologist	5
Field Associate	5
Field Observer	10
Staff Environmental Scientist, Engineer, Architect	10
Hydrogeologist	5
Senior Technician	5
Junior Technician	10
Senior GIS Specialist	2
Junior GIS Specialist	5
Administrative Support/Data Entry	10

Level 1, 3,000 environmental reviews in 90 to 180 days

Tab 6

RESUMES

RESUMES

TAB 6

As depicted in the key personnel organization chart that is included in the previous tab and as further described in the following resumes, the Louis Berger Team has identified an expert leadership team to work directly with NJDEP and key stakeholders, as well as all necessary support staff for a successful program. The Louis Berger Team expects staff to work in local Louis Berger offices, and/or directly in NJDEP's Trenton and/or field offices if so desired. The types of staff provided will correspond to the leadership roles that are identified in the organization chart and will include general staff support functions in both technical and general administrative capacities.

Resumes have been included on the following pages for management, supervisory, and key personnel.

GUL KHAN PE

COMPANY CHIEF EXECUTIVE/PRINCIPAL

Mr. Khan is the business unit manager at Louis Berger for disaster management services and has more than 24 years of professional experience. Mr. Khan is currently the principal-in-charge/program manager on several IQCs including disaster response and recovery actions across the country and in New Jersey for various state, federal and local governmental departments and agencies. Mr. Khan is responsible for company-wide resource allocations and assembling/mobilization for storm and disaster related response/recovery efforts. This is best evidenced by his recent and current work for NYCOEM, NJ OEM and Ocean County and the New Jersey State Recovery effort in the aftermath of Superstorm Sandy.

FIRM

Louis Berger Group

EDUCATION

- BS, Civil Engineering
- BS, Mathematics

REGISTRATIONS / CERTIFICATIONS

- Professional Engineer (NY, NJ, DC)

RELEVANT PROJECT / WORK EXPERIENCE

NJOEM / Toms River, New Jersey, Private Property Debris Removal Program (FEMA funded), Superstorm Sandy, New Jersey. Principal-in-charge of Louis Berger's New Jersey-based response to Superstorm Sandy that also included Private Property Debris Removal (PPDR) for 300- single-family houses in Toms River, New Jersey. Program included database development, private property access arrangement, and oversight of debris removal process. *February 2013 to ongoing, Louis Amoruso, CPWM, 732.255.1000 ext. 8109, lamoruso@tomsrivertownship.com.*

NJOEM and NJDEP, Recovery Response to Superstorm Sandy, New Jersey. Principal-in-charge of Louis Berger's New Jersey-based response to Superstorm Sandy. He also oversaw initial recovery response of debris removal for 18- municipalities in Ocean and Monmouth counties. This action required mobilization of hundreds of monitors. *November 2012- June 2013, Carl Block, 609.290.4014, Cblock@co.ocean.nj.us*

NYCOEM, 24/7 Program Management Support, Response to Superstorm Sandy. Contract executive for Louis Berger's response to Superstorm Sandy for NYCOEM that included 24/7 support at NYC OEM Logistics Center and Generator Storage facility in Shea Stadium, NY. Mr. Khan was responsible to provided corporate oversight and resources with round-the-clock staff assignments. He also visited impacted area and worked with NYC OEM staff to make sure we met their needs during and after the storm. *November 2012-March 2013, Sergio Paneque, 212.386.0225, spaneque@dcas.nyc.gov.*

NYCOEM, Sourcing Emergency Generators, Light Towers and O&M. Corporate executive and principal-In charge. Mr. Khan led Louis Berger corporate response to Hurricane Sandy and at the request of NYC OEM and DCAS, provided 49-generators from 25KW to 2MW, 82-diesel powered light tower trucks, and 1 Solar Powered Generator as well as multiple Solar light towers. *November 2012-March 2013, Sergio Paneque, 212.386.0225, spaneque@dcas.nyc.gov.*

NYCOEM, Performing Emergency Fueling, Response to Superstorm Sandy. Contract executive. Initiated and oversaw assembly/mobilization of 24/7 emergency fuel distribution for first responders and transportation assets at Floyd Bennet Field, part of Gateway National Recreation Area in southeast Brooklyn. *November 2012-March 2013, Sergio Paneque, 212.386.0225, spaneque@dcas.nyc.gov.*

RICHARD HARDING
PROJECT MANAGER/PROGRAM DIRECTOR

Mr. Harding, has more than 21 years experience with Louis Berger in environmental program and project management, field operations supervision and remedial investigations, and design including on-call environmental assessments throughout New Jersey. Mr. Harding's experience includes managing and conducting remedial investigations and design work and subsequent reporting for private, state, and federal clients. Mr. Harding has maintained responsibilities as either the program manager or program manager assistant for implementation of contract administration, and compliance of 10 statewide, multiple sites remedial investigation, remedial design, and landfill design term contracts for NJDEP. His remedial investigation experience encompasses all relevant aspects ranging from workplan development, planning and supervision of field investigations, geophysical survey planning, coordination, supervision and results analysis, subsequent data evaluation, results reporting, remedial action selection, design, and cost analysis. Additionally, he has worked in the fields of environmental and civil engineering.

FIRM
Louis Berger Group

EDUCATION
- BA, Physical & Environmental Geography

REGISTRATIONS / CERTIFICATIONS
- Certificate of Cartography/GIS/ Remove Sensing

RELEVANT PROJECT / WORK EXPERIENCE

NJDEP, Remedial Investigation and Remedial Action Selection (RI/RAS) Term Contract, Statewide. Program manager. Responsibilities include programmatic management and coordination of various environmental project and task managers assigned to statewide publicly funded remedial investigation sites ranging in various sizes and complexity. Mr. Harding has acted as the primary coordinator and liaison between NJDEP's and Louis Berger's senior management teams on a program-wide basis, as well as for programmatic coordination and oversight of professional support personnel and various service subcontractors. His management responsibilities have included the technical and administrative oversight of all phases of each RI/RAS contract project ranging from environmental workplan development, field investigations, data evaluation, results reporting, remedial alternative selection and cost analyses, as well as the programmatic management of senior level technical, administrative, financial and legal issues in the course of contract implementation. *1998 – Present Reference: Ken Petrone, NJDEP 609.984.9755, Ken.Petrone@dep.state.nj.us*

NJDEP, Remedial Design Services (LF & RD Term Contracts). Responsibilities include program-wide management and coordination of various tasks and personnel assigned to multiple remedial design and hazardous waste sites statewide, varying in size and complexity. Mr. Harding acts as the primary contact and coordination liaison between the NJDEP and Louis Berger's senior management teams, professional support personnel, and various service subcontractors. Administrative responsibilities include development and maintenance of contract rosters, budgets, and the day-to-day contract maintenance and compliance. Technical and management responsibilities include the oversight of various environmental investigation phases of each project ranging from workplan development, field investigations, data evaluation, results reporting, and cost analyses in preparation for the development of appropriate remedial designs. *2001 – Present Reference: Ed Putnam, NJDEP 609.984.2990, Ed.Putnam@dep.state.nj.us*

NJ Dept of Treasury, DPMC, General Environmental Services Term Contracts. Program manager on five consecutive, 2-year indefinite quantity general environmental services term contracts (IQCs). The most recent of these term contracts is currently ongoing. Responsibilities have included management, coordination and oversight needed to successfully conduct and complete preliminary and comprehensive remedial investigations and remedial action development at multiple sites throughout the State ranging in size and complexity. Mr. Harding has acted as primary contact for DPMC's senior and project management team on a program-wide basis. His responsibilities of these two contracts have included the management, coordination, and assurance that all technical, administrative, financial, and legal aspects of the contract are implemented and completed to DPMC's satisfaction and compliance of all applicable State and Federal regulations during the course of contract. *2004 – Present; Reference: Rick Flodman, NJ Treasury - DPMC 609.984.3629 richard.flodmand@treas.state.nj.us*

SACHIN APTE PE
ASSISTANT PROJECT MANAGER

FIRM
Louis Berger Group

EDUCATION
- MS, Civil Engineering
- BS, Civil Engineering

REGISTRATIONS / CERTIFICATIONS
- Professional Engineer (NH, NJ)

Mr. Apte has more than 12 years of experience in project controls, project management, scheduling, and design for environmental and ecological assessement of various large-scale throughout New Jersey, including many working directly with NJDEP's Site Remediation Program, Green Acres, and Natural Resource Recovery programs, as well as in conjunction with NOAA. He is a senior engineer with extensive experience with all phases of project controls design and development, project management, scheduling, tracking, and project planning associated with environmentally and ecologically impacted sites throughout New Jersey and elsewhere regarding: project and program controls design and development, quantity and cost estimations, regulatory permitting development and procurement for numerous in-state wetland mitigation, ecological restoration, and environmentally impacted projects. Typical project and program responsibilities include providing contract administration, project controls development and implementation, scheduling, progress and work product tracking and reporting, and inspection of subcontracted services, while performing routine inspections to verify work product is in accordance with the project plans and control systems, design, and planning specifications, as well as all local, state, and federal codes, regulations, and industry standards.

RELEVANT PROJECT / WORK EXPERIENCE

Red Bull Arena, Inc, Red Bull Training Facility, Hanover, New Jersey. Senior engineer/senior inspector, Responsible for providing contract administration and inspection services on the construction of the training facility and three soccer fields. Performing daily inspections to verify that construction is in accordance with the plans, specifications, local codes and standards. Daily progress reports to the project manager/resident engineer. Scope of responsibilities on site included but were not limited to monitoring of all concrete work (below/above grade); structural steel erection; all MEP installations; all building envelope installations; two natural turf and one artificial turf soccer field construction including drainage and underground heating systems; site utility and drainage installation; all audio-visual, security, telecast, as well as construction oversight for architectural finishes of four multi-use buildings that holds the player locker rooms, coaches offices, weight training room and workout areas. Work also includes scheduling and management for township inspections, subcontractor inspection/ laboratory team of NJ State certified DCA Special Inspectors for structural steel bolting/welding, concrete placement & testing laboratory, concrete reinforcement pre-placement inspection and soil and asphalt density testing. Total construction value for project is nearly $6 million. *August 2012 to June 2013; John Amorosa, PE, 551.482.9202, john.amorosa@newyorkredbulls.com*

NJDEP, Lincoln Park Wetland Restoration, Hudson County, New Jersey. Resident engineer. Responsible for full time oversight construction oversight management working an innovative program to restore wetlands and redevelop a landfill for active recreation use as part of this $10.6 million construction grant from the American Recovery and Reinvestment act in July of 2009. Task manager responsibilities include client coordination and development of design plans, bid package and construction cost estimates to excavate landfill debris from within the historical wetland area, re-establish tidal channels and salt marsh, and plant with native salt marsh vegetation to create a wetland area along the Hackensack River. This 35-acre tidal wetland will support native plant species and animals. Work also consists of assisting the agencies in finalizing the design of the 20-acre portion of land filled area which will be capped and restored. This section will then be incorporated into Jersey City's 270-acre Lincoln Park, providing additional recreation fields and park facilities. This project is being designed in coordination with the capping of an adjacent landfill and the design of a nine-hole golf course above the landfill. Responsible for all aspects of the project from design to administration, coordination between multiple state agencies, and multiple consultants and contractors. *2008 to 2010; David Bean, 609.984.0599, David.Bean@dep.state.nj.us.*

NJDEP, Mad Horse Creek Wetland Restoration, Salem County, New Jersey. Senior engineer. Responsible for working with the design team to develop wetland restoration design for freshwater and tidal areas. Responsibilities included coordination with client for wetland delineation, developing the grading plan, planting, soil erosion and sediment control plans, preparing earthwork calculations and cost estimates for the project. *2010 to Present, Carl Alderson, 732.371.0848, carl.alderson@noaa.gov*

RYAN CLEARY PE
ASSISTANT PROJECT MANAGER

Mr. Cleary has more than 10 years experience in historical preservation and construction management. While serving as an Army Engineer Officer overseas, he received the Bronze Star for his service and leadership of Soldiers under his authority as well as providing contract administration and assessement for the reconstruction and rehabilitation of multiple Army and other facilities throughout Baghdad. As a member of the Louis Berger Group, he has provided the full spectrum of historical preservation assessment and construction management services for several clients including the United States Army of Engineers, the National Park Service and the Marine Corps. As such he experienced in daily inspection of contractors, jobsite safety, assessement and construction schedules, and daily coordination of on-site activities. As a professional engineer he is practiced in myriad of fields including both construction and historical preservation engineering with projects including from building assessments, stabilization, seawall rehabilitation, landscape rehabilitation, and building facility upgrades. He is a proven communicator that enjoys being part of the assessment and rehabilitation construction team.

FIRM
Louis Berger Group

EDUCATION
- MS, Historic Preservation (expected 2014)
- BS, Civil Engineering

REGISTRATIONS / CERTIFICATIONS
- Professional Engineer (MO)

RELEVANT PROJECT / WORK EXPERIENCE

National Park Services (NPS), Road Rehabilitation Fort Wadsworth, New York and Sandy Hook, New Jersey. Construction manager. Rehabilitation of the over 10 miles of road at between Fort Wadsworth, NY and Sandy Hook, NJ. Included road milling, rehabilitation, paving, lane stripping, shoulder reconstruction, and guardrail installation. Responsibilities include inspection of contractor's work for compliance with project specifications, Implemented QA program to ensure QC testing and sampling met NJ DOT specifications. *April 2013-June 2013. Jason Hand, 303.969.2877, jason_hand@nps.gov.*

NPS, Rehabilitation of Childs Park, Dingmans Ferry, Pennsylvania. Construction manager. Rehabilitation of the historic culture landscape at Childs Park, Pa. Included ecological restoration, replacement of three historic pedestrian bridges & restoration of two civilian conservation corps structures.*October 2010-May 2013. Hugh Duffy, 303.969.2452, Hugh_Duffy@nps.gov.*

NPS, Construction of North Shore Entrance Station, Lake Mead, Nevada. Construction manager. Construction of an entrance station consisting of two park ranger buildings and one break area and associated paving in order to control access to the National Park Services' Lake Mead National Recreation Area. Project experience includes change order management, review of contractor delay claims, and preparation project completion report. *November 2011-January 2012. Bob Pilk, 303.969.2910, Robert_Pilk@nps.gov.*

NPS, Stabilization of the Ellis Island Seawall, Ellis Island, New Jersey. Construction manager. Stabilization of historic seawall around Ellis Island. Project included structural stabilization of the island's seawall. Work included pile driving, extensive underwater concrete repair, vibration monitoring and seawall reconstruction. Responsibilities of the project were inspection of the contractor's work and review of contractor's pay requests. *June 2010-July 2012. Hugh Duffy, 303.969.2452, Hugh_Duffy@nps.gov.*

NPS, Stabilization of the Baggage and Dormitory Building, Ellis Island, New Jersey. Construction manager. Stabilization of the Historic Baggage and Dormitory building at Ellis Island. Project included debris removal, historic stone dismantling and cataloging, new roof installation and structural stabilization. Responsibilities included review of contractor's stone removal key plan, analyzed contractor's claims, safety inspections, onsite contruction inspections, inspection of historic stone storage areas and catalog plan, and managed as-built drawings and closeout documents. *June 2010-November 2011. Jack Hagen, 303.987.6613, Jack_Hagen@nps.gov.*

DAVID ORSINI PMP
IT MANAGER

IT project manager with more than 15 years of IT experience in web technologies, infrastructure management and application development. Skilled at leveraging extensive technical experience to manage critical IT projects aligned with organizational goals to deliver them within budget, on time and with quality.

FIRM
Aerotek

EDUCATION
- BS, Business Administration

REGISTRATIONS/CERTIFICATIONS
- Project Management Professional

RELEVANT PROJECT / WORK EXPERIENCE

Horizon Blue Cross Blue Shield of New Jersey, Newark, New Jersey. IT project manager II. Coordinate all project management activities for the enrollment, vendor and billing functional areas of a project consisting of 250,000 Hours and a budget of $55M. Manage, prioritize, and coach the efforts during all SDLC phases of project including estimating, business and technical requirements, design, testing, and implementation. Responsibilities included presenting status reports, scheduling, budgeting, and risk management project components. He also organized project deliverables using project management tools Clear Quest, Planview, and SharePoint. *2012 - 2013. Reference information not available.*

Goldman Sachs, Diversified Global Graphics Group, Jersey City, New Jersey. IT project manager. Responsible for managing global IT infrastructure, application development, and external client facing projects initiated to support new transformative business lines. Other tasks included the implementation of procure to pay web based application and infrastructure for client; designed, planned, and managed Global SharePoint Intranet project for use by more than 600 users; and implemented and managed new SFTP server environment to provide data encryption and transfer protection for business partners and clients. *2010-2012. Reference information not available.*

PREVIOUS EXPERIENCE

Merck & Co., Inc., 2001 to 2010. Lead applications analyst/IT project manager. Managed key infrastructure and application development projects. Supported technical activities of a global Internet environment. Other project experience includes:

- Lead Project Manager in the migration and consolidation of 300 sites.
- Managed fixed price IBM web hosting contract which included the support and maintenance of an infrastructure containing 30 systems running Windows, Linux, AIX, ISS, Apache and Tomcat.
- Project Manager and technical contributor for the design and implementation of new Windows/IIS/.Net environment including 10 servers using hardware load balancing and firewall technologies.
- Coordinated project related activities between internal business groups to collect requirements and work with offshore resources to execute the design, development and release of product sites.
- Project Manager and technical contributor to implement web site inventory tracking access database used to ensure site metrics were accurately captured and kept current.
- Initial point of contact for off hour decision making and communication regarding site, server and environment outages.

REFERENCE
Name: Raghu Panalla, Senior SQL Developer
Phone: 803.767.2769
Email: raghu.panalla@knipper.com

CHARLIE CESSNA

CONTRACT MANAGER

Mr. Cessna has more than seven years' experience with Louis Berger in large scale environmental contract management for the State of New Jersey. Mr. Cessna's experience includes managing multiple contracts and assisting with the overall management of contracts for various private, state and federal clients. Mr. Cessna currently serves as contract manager on Louis Berger's current, ongoing statewide Remedial Investigation Term Contract with NJDEP, assistant contract manager for NJDEP's Remedial Design Term Contract, as well as manager for NJ Treasury's DPMC Statewide Environmental Services Term Contract. For the past seven years with Louis Berger, Mr. Cessna has also maintained responsibilities as contract manager assistant for implementation of the ongoing, day-to-day contract administration and contract compliance of four other previous statewide term contracts for NJDEP. His well experienced well with maintaining the responsibilities for the general administration, performance and contract compliance of several other large contracts in New Jersey and the vicinity.

FIRM

Louis Berger Group

EDUCATION

- MA, Behavioral Science
- BA, Political Science

RELEVANT PROJECT / WORK EXPERIENCE

NJ Dept of Environmental Protection: Remedial Investigation and Remedial Action Selection (RI/RAS) Term Contract, Statewide. Contract manager. Mr. Cessna currently serves as the Contract Manager on Louis Berger's ongoing RI/RAS term contract with NJDEP. As Contract Manager on four of these environmental term contracts, he has acted as a coordinator and liaison between NJDEP's and Berger's financial, administrative and legal management teams on a contract-wide basis, as well as for coordination of various contract service subcontractors. His contract management responsibilities have included programmatic management of senior level administrative, financial and legal issues in the course of contract implementation. *1998 – Present, Ken Petrone, NJDEP 609.984.9755, Ken.Petrone@dep.state.nj.us*

NJ Dept of Environmental Protection: Remedial Design Services (RD Term Contracts). Assistant contract manager. Over the past seven years, Mr. Cessna has assisted the contract administration and program management for four separate Remedial Design term contracts for NJDEP. Contract-wide administrative responsibilities include development and maintenance of contract rosters, budgets, and the day-to-day contract maintenance and compliance. *2001 – Present; Ed Putnam, NJDEP 609.984.2990 Ed.Putnam@dep.state.nj.us*

NJ Dept of Treasury - DPMC: General Environmental Services Term Contracts. Assistant contract manager. Since 2006, Mr. Cessna has served as Louis Berger's Assistant Contract Manager on 4 consecutive, 2-year indefinite quantity general environmental services term contracts (IQCs) with NJ Treasury's Department of Property Management and Construction (DPMC); the most recent of these term contracts is currently ongoing. For these environmental services contracts, his responsibilities have included the scheduling and coordination needed to successfully conduct and complete preliminary and comprehensive remedial investigations and remedial action development at multiple sites throughout the State ranging in various sizes and complexity. His responsibilities have also included the contract management, coordination and assurance that all administrative, financial and legal aspects of the contract are implemented and completed to DPMC's satisfaction and in full compliance of all applicable terms during the course of contract. *2004 – Present; Rick Flodman, NJ Treasury - DPMC 609.984.3629, richard.flodmand@treas.state.nj.us*

ROBERT ROSENGARTH CMA, MBA

CHIEF ACCOUNTANT

Mr. Rosengarch is a certified management accountant (CMA) with software expertise for Excel power user and MS Dynamics. He also has expertise in ERP's, databases, and GL's including Essbase, MS Sequel Server, Oracle, Hyperion, SAP, M&D, Integral, and MAPICS. Additional areas of knowledge include QuickBooks, Data exporting/loading, and reporting programs.

FIRM

Aerotek

EDUCATION

- MBA, Finance
- BS, Accounting

RELEVANT PROJECT / WORK EXPERIENCE

SOS Security LLC, Parsippany, New Jersey. Assistant controller. Responsibilities include account analysis and customer quote compilation/verification, ad-hoc analysis and reporting, and utilizing MAS 90 and extensive use of its MS Excel downloader. *October 2012-April 2013. Reference information not available.*

JHL Enterprises, Edison, New Jersey. Finance manager. Utilized quickbooks for analyzing and reporting management information, responsible for the integrity of the database and general ledger structures, and supported operations in New Jersey, California, Chian, and Taiwan. *May 2010-September 2012. Reference information not available.*

CML-Innovative Technologies, Hackensack, New Jersey. Manager, financial planning, and analysis. Responsibilities included coordination and consolidation of budgets and strategic plans for presentation to holding company executives, developing and sending daily divisional reports of sales, open orders, and past due orders with sales budget. Other tasks included divisional reports and leading bi-weekly conference calls. *September 2005-June 2009. Steve Ingham, 615.973.1870, email not available.*

METLIFE, Cranford, New Jersey. Financial representative (welath planning group). Responsible for providing business and individuals with financial analysis and support in implementing their goals. *March 2002-August 2005. Reference information not available.*

Comshare, New York, New York. Senior consultant. Reviewed the budgeting/forecasting, consolidation, strategic planning, analysis and reporting processes of more than 100 separate corporations and custom-built with OLAP and relational databases, a demonstration and presentation that recommend best practices and process improvements. *September 1998-November 2001. Reference information not available.*

Johnson & Johnson, Medical Laboratory Automation, Inc., Pleasantville, New York. Manager, planning, and analysis. Developed and communicated budgets, forecasts, and strategic plans for three business units. Also, produced a Worldwide P&L format by country and region, which was used by J&J. *August 1982 -May 1998, Stu Clymer, 203.386.0749, email not available.*

NAGASREENU YEDLAPALLI

DATABASE MANAGER

Mr. Yedlapalli has more than 10 years of experience developing n-tier web/ Windows base applications using .Net, 3.0 WCF, ASP.Net 2.0 C#.NET, VB.NET, ADO.NET, AJAX, XML, XSL, web services, win forms, web forms, VS.NET 2005, SQL server, SQL server reporting services (SSRS), Oracle, enterprise library, Crystal Reports 10.0, ASP, DTS, COM, MTS, XML, MS Visio, and Web services. Other knowledge includes database modeling, analysis, database maintenance, rechnical review, optimization, performance monitoring, performance tuning, eveolving back up , and database configuration. Mr. Yedlapalli is experienced in gathering business requirements, documenting them, and converting them into robust system designs and has strong software engineering and data analysis skills.

FIRM

Aerotek

EDUCATION

- Master of Computer Applications

RELEVANT PROJECT / WORK EXPERIENCE

J. Knipper, KFIS. Senior MS SQL server developer/.NET programer. Was dedicated to providing a broad array of healthcare marketing solutions, including comprehensive direct-mail, fulfillment, Sample distribution. Worked for Multiple clients King Pharmaceuticals, Bausch, Bayer, Pfizer, Purdue Pharma. Responsibilites included working to create complex store procedures, triggers, cursors, tables, standard extract views, joins, statements, complex T-SQL code to create extract data files, and all other database development activities. *Reference information not available.*

New York City HRA/MIS, Adult Protective Services (APS). Senior MS SQL server developer/.NET Programmer. Adult Protective Services handles referrals of adults who are at risk and have no one willing and able to assist. The Central Intake Unit serves as a 911-like intake system for the 5 APS Borough Offices and JASA. Per New York State regulations, APS caseworkers must visit these referred clients within three business days from the date of referral (and within one business day for emergency referrals). Therefore, the referrals entered into the system by CIU staff MUST be routed immediately (via an automated system) to the appropriate borough office. The appropriate borough office must immediately assign the new referral to the next staff member in the rotation. The APS case manager assigned must initiate an investigation and visit the client. These clients are at risk and may need crisis intervention. It should be noted that CIU is also routing information on ACTIVE APS cases that may also communicate a crisis situation on existing cases. The timeline for the routing of this information is critical and is one of the most important features of an automated system supporting APS. *Reference information not available.*

FAMEEDA ALI CHMM

ENVIRONMENTAL SPECIALIST 1/ENVIRONMENTAL SCIENCE

Ms. Ali has 15 years of experience in a variety of management and field activities. This includes project management, preparation of project plans and reports, environmental site assessment, investigation and remediation, and water, soil and air sampling. This experience also includes direct project interface with clients, subcontractors, internal personnel and regulatory agency representatives.

FIRM

Louis Berger Group

EDUCATION

- MS, Environmental Engineering
- BA, Physics

REGISTRATIONS / CERTIFICATIONS

- Certified Hazardous Materials manager (CHMM)

RELEVANT PROJECT / WORK EXPERIENCE

New Jersey Department of Environmental Protection, Remedial Investigation/Remedial Alternatives Analysis, Multiple Site, New Jersey. Task manager. Responsible for conducting Preliminary Assessments in accordance with NJDEP regulations and guidance documents at four NJDEP Site Remediation-Division of Publicly Funded Sites projects to identify potential soil and groundwater contamination, primarily at service station and automotive repair facilities. *2012-Present, Ken Petrone, 609.984.9755, Ken.Petrone@dep.state.nj.us.*

New Jersey Department of Treasury, Division of Property Management and Construction, Greystone Park Psychiatric Hospital, Morris Plains, New Jersey. Project manager. Responsible for Preliminary Assessment and Site Investigation of a 150-acre portion of the Greystone Park Psychiatric Hospital. Duties included planning, scheduling and organizing project tasks. Also responsible for overseeing field inspection teams, historical research, government records review and report preparation *2008-2011, Georgette Bunch, 609.633.2127*

United States Department of Housing and Urban Development, Multiple Locations, New York. Environmental engineer. Responsible for conducting historical land usage research and assisting in report preparation for ASTM Phase I ESAs at three properties in New York. *2011, contact information not available.*

New Jersey Turnpike Authority, Interchange 6 to 9 Widening Project, OPS T3103, Multiple Site Locations. Principal engineer. Responsible for conducting ASTM Phase I ESAs and NDEP Preliminary Assessments at multiple properties in conjunction with the Widening Project. Responsibilities included site inspection, historical land usage research and report preparation, as well as technical review of reports prepared by a subcontractor. In total, over 30 properties were evaluated. *2008-2010, John Keller, PE, 732. 750.5300, Ext 8263*

New Jersey Department of Environmental Protection, Remedial Investigation/Remedial Alternatives Analysis, Multiple Site, New Jersey. Project manager for seven NJDEP Site Remediation-Division of Publicly Funded Sites projects to investigate soil and groundwater contamination, primarily at service station and automotive repair facilities. Responsibilities include planning, scheduling, organizing, initiating and overseeing project tasks. Tasks included creating Background Investigation Reports, Health and Safety Plans, Site Sampling and Investigation Plans, Invitation for Bidders and procuring of subcontractors, and Remedial Investigation Reports. Duties also include the following: overseeing field sampling teams; making real-time decisions where field activities require adjustments; ensuring that quality control procedures and safety plans are understood and executed; and coordinating among subcontractors, analytical laboratories and NJDEP Project/Case Managers. *1999-Present, Ken Petrone, 609-984-9755, Ken.Petrone@dep.state.nj.us.*

CHRISTOPHER WATT PG, LSRP
SUCONTRACTOR MANAGER

Mr. Watt is a principal geologist with 15 years of experience in the fields of environmental geology, contaminant hydrogeology, and geotechnical investigations. His responsibilities have ranged from field geologist to project manager. In addition, one of Mr. Watt's primary roles within the Environmental and Disaster Management Services (EDMS) Division at Louis Berger is that of subcontractor coordinator. In this capacity Mr. Watt works closely with the procurement team and the project management team to solicit bids from able and vetted subcontractors, administer and lead pre-bid site walks and evaluate bid documents to aid in selection the most capable and responsive subcontractors for any given project. While projects are active, Mr. Watt coordinates and schedules the logistics associated with multiple subcontractors working on each project and ensuring that the subcontractors are following their specific scope of work and solicited and ultimately reviewing the invoices and change orders with the project management team.

FIRM
Louis Berger Group

EDUCATION
- BA, Environmental Science
- Master's Coursework in Geology

REGISTRATIONS / CERTIFICATIONS
- Professional Geologist
- NJDEP-Licensed Site Remediation Professional

RELEVANT PROJECT / WORK EXPERIENCE

New Jersey Department of Environmental Protection (NJDEP), Upper Ringwood Mines Superfund Project, Ringwood, New Jersey. Remedial investigation of residential properties. The project entailed the investigation of lead contaminated sludge and soil at residential properties at the NPL re-listed Ringwood Mines Superfund Site using NJDEP guidance and the USEPA Lead-Contaminated Residential Sites Handbook. As the project manager for the project, Mr. Watt is responsible for the creation and implementation of property specific workplans and subsequent individual property specific reports. Mr. Watt's tasks involved coordination and logistics of the site operations and subcontractors, overseeing the daily activities at the Site as well as maintaining the budget and serving as the appointed Berger liaison for the NJDEP, the residents, resident's council, the USEPA as well as USEPA contractors. *2006-2011. Ken Petrone, 609.984.9755, ken.petrone@dep.state.nj.us.*

NJDEP, Pine Lake Park Groundwater Contamination Site, Manchester, New Jersey. Remedial investigation. Mr. Watt served as the project manager and NJDEP point of contact for the investigation of a TCE groundwater plume which extended into a residential neighborhood consisting of 2998 individual properties over a 2 mile area. The chlorinated solvent plume is thought to have originated from a near by asphalt plant which is being remediated under case Brownfield's management with no obligation to investigate any off-site contamination. Mr. Watt's responsibilities include development of conceptual approach, RIWP, bid solicitation and selection; cost estimating, scope implementation, budget management, logistics and ultimately Remedial Investigation Report submittal resulting in a no further action status for NJDEP. *2008-2011. Ken Petrone, 609.984.9755, ken.petrone@dep.state.nj.us.*

NJDEP, Lawrence Road Service Station, Lawrenceville, New Jersey. Remedial investigation. Mr. Watt is the project manager and primary NJDEP point of contact for the investigation of former gasoline service station which potentially contaminated numerous potable wells of a nearby residential neighborhood. Currently, product remains onsite and MTBE concentrations of 4,000 ppb remain onsite and downgradient in fractured bedrock within an area of 300+ homes with potable wells for which the NJDEP began IEC investigations for potable well sampling and vapor intrusion. Mr. Watt's role as project manager and logistics coordinator includes cost estimating, budget management, subcontractor logistics, development and implementation of "Triad-like" RIWPs including groundwater profiling using packer testing of bedrock boreholes, and long term groundwater monitoring through monitoring wells in an effort to gain delineation for an CEA and ultimate design of a remedial action. *2008-2013. Ken Petrone, 609.984.9755, ken.petrone@dep.state.nj.us.*

EDWARD SAMANNS PWS, CE
BIOLOGY/ECOLOGY

FIRM
Louis Berger Group

EDUCATION
- MS, Geography
- BS, Biology

REGISTRATIONS / CERTIFICATIONS
- Professional Wetland Scientist
- Certified Ecologist

Mr. Samanns is the manager of environmental sciences at Louis Berger with more than 25 years of experience managing environmental investigations for a variety of projects and clients. Mr. Samanns specializes in ecological restoration/ mitigation and related topics including stream and wetland ecology, permitting, threatened and endangered species studies, invasive species management, natural resource management and NEPA compliance. Mr. Samanns serves as the Project Manager/Director for several environmental and restoration contracts for public sector clients and is responsible for preparing data collection and analysis protocols, implementing vegetative and hydrology monitoring methodologies, developing habitat restoration designs, and preparing natural resource and watershed management plans. Mr. Samanns is a key member of Louis Berger's Ecosystem Restoration practice, a unique assemblage of key scientists and engineers that have been combined to conduct restoration projects including wetland mitigation banks, endangered species habitat enhancement, coral reef creation, and tidal marsh restoration. He was the principal investigator and author of NCHRP Synthesis 302 Mitigation of Ecological Impacts (2002), and the principal investigator for NCHRP 25-25 Task 68: Implementing Measures to Reduce Highway Impacts on Habitat Fragmentation (2011), and has published/presented several papers on wetland mitigation and wildlife crossings. Mr. Samanns is also a co-author of the U.S. Army Corps of Engineers, Waterways Experiment Station, Engineering Specification Guidelines for Wetland Plant Establishment and Subgrade Preparation (1998). Mr. Samanns also performs QA reviews of technical reports and restoration designs and provides independent research on environmental topics for clients.

RELEVANT PROJECT / WORK EXPERIENCE

New Jersey Turnpike Authority, Interchange 6 to 9 Widening Program, Wetland Mitigation Site Selection and Design Program. Project task manager. Responsible for overseeing the identification of suitable wetland mitigation sites for a 36-mile roadway expansion project and coordinating agency review and approval of mitigation designs. Responsible for developing site designs, preparing landscape plans and construction specifications, vernal pool design, and coordinating construction support. A total of four sites have been designed and constructed, and a fifth site is under design. Also represented Authority before the Wetlands Council to obtain approval for the preservation of over 600-acres of wetlands and critical habitats as part of the wetland mitigation program. *2007 – 2014. John Keller, 732.750.5300 ext.8263.*

EarthMark Mitigation Services, LLC, Richard P. Kane Natural Area, Wetland Mitigation Bank, Rutherford, New Jersey. Project Director responsible for the overall management of the planning, design and construction of a 230-acre tidal wetland mitigation bank and a 17-acre non-tidal forested wetland restoration project within the NJ Meadowlands District. Duties include coordination with regulatory agencies (IRT), technical review of baseline data collection for hazardous waste, plant communities, hydrology, and soil samples; development of tidal marsh and freshwater forest design plans; and technical review of the Banking Instrument and long term monitoring and maintenance plan. Role includes providing analysis of baseline data, review of functional assessment methodology, and development of design plans for freshwater forested wetland component of project. Project completed construction in 2011 and planting was be completed in 2012. *2009 – 2012. Rich Mogensen, 704.576.1111.*

New York State DOT, Term Agreement for Ecological and Water Resource Studies, and Training for New York State Department of Transportation. Project manager. Responsible for managing four consecutive four-year on-call services term agreement to provide wetland and water services to NYSDOT Regions 8, 10 and 11, and other upstate regions. Services performed include the delineation of state and federal regulated wetlands, wetland functional assessments, wetland permitting support under the New York State Freshwater Wetlands Act and Section 404 of the Clean Water Act, stream assessments and restoration design, and water quality assessments modeling. Additional services include providing training to NYSDOT staff, evaluating alternative alignments to avoid, minimize and reduce wetland impacts, evaluate wetland mitigation sites, and conducting and preparing wetland mitigation monitoring reports for submission to USACE/NYSDEC. More than 100 task orders have been completed. *1996 – 2012. Gail Smith, 518.457.1921.*

CAMILLA DEIBER

HISTORIC PRESERVATION SPECIALIST 1/HISTORIC PRESERVATION

FIRM

Louis Berger Group

EDUCATION

- MS, Historic Preservation
- BFA, Interior Design

Ms. Deiber earned a Bachelor of Fine Arts in interior design and an MS degree in historic preservation. Since joining Louis Berger in 1999, she has completed numerous architectural surveys, historical research for cultural resource investigations, National Register determinations of eligibility, and historic context studies in the Midwest. Since the inception of the contract with the City of Cedar Rapids for Section 106 Reviews in support of flood-recovery efforts (#1108-152), Ms. Deiber has conducted Section 106 reviews for more than 1,000 properties participating in the rental rehabilitation, homeowner rehabilitation, and steam conversion programs. This work involved conducting project reviews to determine exempt projects and activities, National Register evaluations, review of scopes of work with property owners of historic properties, consultation with the Iowa SHPO and agencies on program policies and procedures, and formulating appropriate mitigation treatment measures for adverse effects. In 2009, Ms. Deiber directed and conducted reconnaissance surveys for 11 neighborhoods in Cedar Rapids to streamline Section 106 Review of Federal Emergency Management Agency (FEMA) and Department of Housing and Urban Development (HUD) flood-related projects. In January 2010, Ms. Deiber reviewed and completed Section 106 architectural reviews for 1,435 CDBG-funded buyouts. Ms. Deiber continues to manage Section 106 reviews for single and multi-family in-fill construction.

RELEVANT PROJECT / WORK EXPERIENCE

City of Cedar Rapids, Historic Context for the Sanitary Sewer System of Cedar Rapids, Linn County, Iowa. Co-Principal investigator. Completed a historic context in support of FEMA project worksheets for flood-related improvements to the City's sewer system. *2009-2010, Dave Wallace, 319.286.5814, DavidW@cedar-rapids.org; Judy Lehman, 319.281.5022; j.lehman@cedar-rapids.org*

City of Cedar Rapids, Facilitation Of Environmental Review Process, Including Section 106 Historical Review Process. Completed exempt forms and other Section 106 Review documentation for over 2,000 properties affected by the flood June 2008. *January 2009-November 2012. Paula Mitchell, 319.281.5852; p.mitchell@cedar-rapids.org; Judy Lehman, 319.281.5022; j.lehman@cedar-rapids.org*

City of Cedar Rapids, Historic and Archaeological Consultant Services for Flood Recovery Housing Programs, Linn County, Iowa. Project manager. Managed architectural and archaeological reviews in support of CDBG-funded Single Family New Construction (In-fill) housing for families displaced by the June 2008 flood. *2012-present. Paula Mitchell, 319.281.5852; p.mitchell@cedar-rapids.org; Judy Lehman, 319.281.5022; j.lehman@cedar-rapids.org*

City of Cedar Rapids, Architectural Reconnaissance Survey for the Belmont Park Addition to Cedar Rapids, Linn County, Iowa. Principal investigator. Conducted a reconnaissance survey in support of FEMA and HUD flood-recovery undertakings. *2009. Paula Mitchell, 319.281.5852; p.mitchell@cedar-rapids.org; Judy Lehman, 319.281.5022; j.lehman@cedar-rapids.org*

BRUCE LOCKWOOD

PRINCIPAL ENVIRONMENTAL SCIENTIST, HAZMAT EXPERT

Mr. Lockwood is a skilled environmental scientist with more than 16 years of industrial hygiene experience with a strong knowledge of environmental and regulatory issues. Mr. Lockwood is well known for his attention to detail and provides strong adherence to applicable Standards and Guidelines with a focus on innovative with sharp analytical and problem solving. Within Louis Berger, Mr. Lockwood is responsible for performing many duties in various areas of environmental consulting. These duties have included a variety of environmental assessments, investigations and inspections with regards to lead, mold and asbestos. Mr. Lockwood has also developed strong oversight skills with regards to associated abatement projects, with report writing and daily communication being provided to those clients.

FIRM

Louis Berger Group

EDUCATION

- BA, Communications

RELEVANT PROJECT / WORK EXPERIENCE

FEMA Public Assistance Personal Property Debris Removal (PPDR) and Demolition, Toms River Township, New Jersey. Project manager. In the aftermath of Superstorm Sandy, worked as advocate for Toms River Township to ensure compliance with FEMA Public Assistance cost-recovery program. Oversaw the tracking of all information required for FEMA compliance as part of the PPDR/Demolition programs. Coordinated with FEMA, as well as State and Local officials for approval of over 300 properties for participation in the program. During the Construction phase, provided Construction Management services, ensuring field work complied with all local, State, and Federal laws. Oversaw monitoring work provided by Louis Berger to ensure proper tracking for maximum financial recovery under the Public Assistance program. Provided services as Right-of-Entry Inspector, Field Supervisor, Field Monitor, and Data Manager. *2013-ongoing, Lou Amoruso 732.255.1000, lamoruso@tomsrivertownship.com.*

New Jersey School Development Authority-New School Construction. Performed environmental surveys and project oversight for NJSDA at East Orange, Irvington and Newark New Jersey in compliance with EPA and state regulations for demolition projects. Mr. Lockwood prepared the survey reports, air monitoring reports and final clearance letters which are necessary for the demolition of existing structures. *2006-2008, Paul Moch, 609.943.5955, email not available*

New Jersey School Development Authority-Emergent Issues. The Onsite Contact for environmental surveys at thirteen schools in the Newark Public School System. These surveys involved Asbestos, Lead and Mold Investigations at Schools that were deemed emergent by the New Jersey Department of Education. Mr. Lockwood coordinated the inspections and prepared environmental reports and cost estimates for the removal of lead based paint, asbestos and mold in order to repair the emergent issues at the thirteen schools. *2010-2010, Jeanette North, 609.943.5955, email not available*

United States Postal Service-Hurricane Ike Emergency Response. Involved with the emergency response effort for Hurricane Ike in Houston Texas. Mr. Lockwood performed damage assessments at the Orange and Wallisville, Texas Post Offices. These assessments involved comprehensive inspections for environmental and safety concerns due to flooding, black water and high wind damages caused by Hurricane Ike. *2008, Nick DeCarlo, 973.515.7824. nicholas.decarlo@usps.gov.*

MICHAEL MCWATTERS PE

ENVIRONMENTAL ENGINEER

FIRM
Louis Berger Group

EDUCATION
- BS, Chemical Engineering

REGISTRATION/CERTIFICATION
- Professional Engineer (NJ)

Mr. McWatters' professional career as a chemical/environmental engineer includes specialization in the remediation of soil and groundwater contamination. His past experience includes preparing cost estimates and proposals, designing remedial treatment programs based on site-specific information (contaminant type, contaminant concentrations, site history, etc.), implementing and overseeing treatment programs, performing field investigations (air and groundwater monitoring, operation of specialized equipment), and evaluating the effectiveness of the treatment programs through data evaluation. His time at Louis Berger has allowed him to grow professionally by gaining experience in several areas including remedial design, project management, field investigations, construction oversight, and reporting. Mr. McWatters has experience working in the following services: Brownfields Remediation and Redevelopment, Groundwater Treatment Services, Industrial Hygiene Services, Vapor Intrusion, General Environmental Services, and in-situ chemical oxidation.

RELEVANT PROJECT / WORK EXPERIENCE

Red Bull New York, Red Bull Arena, Harrison, New Jersey. Staff engineer and field oversight for several environmental issues on this 12-acre redevelopment project which will turn previous contaminated industrial properties into a state-of-the-art soccer-specific stadium. Responsibilities have included evaluation of site remediation data and reporting in support of the Remedial Action Workplan (RAW), Soil Re-use Proposal, Health and Safety Plan, Air Monitoring Plan, and Vapor Intrusion Mitigation Design for the project. Also, provided oversight for excavation of and off-site disposal of contaminated soil during pile-cap construction activities as well as NJPDES Discharge-to-Groundwater permit by rule with NJDEP Case Manager. *Reference information unavailable.*

Brownfields Redevelopment Project, Bound Brook, New Jersey. Staff engineer and field leader for the remediation of soil contamination from a former auto dealership and auto service facility, with planned site redevelopment into a commercial bank. Remedial activities involved removal of floor drains and underground storage tanks (USTs) and remediation of associated subsurface discharges and soil impacts through excavation and off-site disposal. After excavation and disposal activities, a Remedial Action Report was provided to the NJDEP recommending a NFA for site soils. *Reference information unavailable.*

Red Bull New York, Red Bull Arena, Harrison, New Jersey. Staff engineer. Louis Berger personnel conducted air monitoring for volatile organic compounds and particulates (dust) during all intrusive activities conducted for the construction of the Red Bull Arena (utility installations, pile cap installations, etc.). Responsibilities included scheduling personnel to conduct air monitoring and maintaining contact with the construction manager to determine scheduling and to inform them of the air monitoring results. *Reference information unavailable.*

Moisture Vapor Investigation and Abatement for High Concrete Moisture at a Commercial Facility, Edison, New Jersey. Staff engineer for the investigation of the potential sources and contributing factors for failed floorings at a commercial facility as a result of high concrete floor moisture issues, and subsequent design and pilot testing of a sub-slab depressurization system as part of a moisture vapor abatement strategy. *Reference information unavailable.*

STACY BARRON AICP

NEPA SPECIALIST

Ms. Barron is a principal planner specializing in environmental and transportation planning with more than 13 years of experience in providing environmental assessment (EA) and environmental impact statement (EIS) services. As a deputy project manager, Ms. Barron provides oversight of the environmental review process, assisting with the preparation of City Environmental Quality Review (CEQR), State Environmental Quality Review (SEQR), and National Environmental Policy Act (NEPA) documents and associated environmental analyses. As an advanced GIS user, her work has focused on the use of GIS as a planning tool and includes land use, socioeconomics, and open space analyses.

FIRM

Louis Berger Group

EDUCATION

- MA, Geography
- BA, Geography

EDUCATION

- ACIP
- GISP

RELEVANT PROJECT / WORK EXPERIENCE

Dormitory Authority State of New York, Harlem Hospital Center Modernization Project Proposed Parking Facility, New York, New York. Project manager. Oversaw and assisted with the preparation of a technical memorandum that analyzes the revised transportation component of the Harlem Hospital Center Modernization Project (a smaller, less-costly parking facility is now being proposed instead of the parking garage that was originally proposed.) Also drafted the Section 4(f) Evaluation for the proposed parking facility, as well as the required NEPA Checklist documentation (NYS TIP funds will be used to fund a portion of the proposed transportation facility). *2011. Reference information unavailable.*

Dormitory Authority State of New York, Baruch College Field Building Renovation Project, New York, New York. Project manager. Managed and prepared the CEQR environmental assessment statement (EAS) for the proposed renovation of the historic Field Building, which includes the major infrastructure improvements and interior and exterior renovations. The project includes the addition of approximately 21,000 gross square feet of new space, mainly in the form of infill development along the north side of the building and an addition to the south side of the building (mostly occupied by a new elevator bank). The proposed project is seeking a Mayoral Override of the zoning requirements, as the existing building is non-compliant and the proposed project would further increase zoning non-compliance. The project is scheduled to commence in late 2011. *2010-2011. Reference information unavailable.*

Dormitory Authority State of New York, New York State Office of Court Administration Training Academy. Project manager. Responsible for preparing the SEQR EAF and Supplemental Report for the development of a training academy complex for Office of Court Administration court officers in Brooklyn. The training complex would consist of classrooms, offices, dormitory-type residential space, and dining facilities designed to accommodate up to 200 students, faculty and other facility staff. The historic buildings that would house the Academy are no longer occupied and would undergo major renovation to enable their reuse. *2009-2010. Reference information unavailable.*

Dormitory Authority State of New York, CCNY, CUNY, Student Residence Project, New York, New York. Project manager. Responsible for submission of EA Form and Supplemental Report for the approximately 183,000-gsf student residence building, ranging from six to 11 stories in height, on the 35-acre City College of New York campus. The building provides housing for approximately 600 students, and is the College's first on-campus student housing facility. Main project issue involved shadow impacts on the neighboring St. Nicholas Park. Construction of the student residence extended from March 2005 until August 2006. *2004-2005. Reference information unavailable.*

CRAIG HANLON PWS, CE

ENVIRONMENTAL SCIENTIST

Mr. Hanlon is a principal environmental scientist with Louis Berger, and has 18 years of experience in environmental consulting. His experience includes wetland delineation, wetland restoration, wetland mitigation monitoring, and on-site identification of floral and faunal species. In addition, Mr. Hanlon has prepared and submitted numerous state and federal land use permit applications including USACE Section 404 and Section 10, federal National Environmental Policy Act (NEPA) compliance documentation, and various state general and individual permit applications. He has specific training in wetland delineation and has performed wetlands assessments and functional analysis. Mr. Hanlon also has conducted threatened and endangered species surveys and Endangered Species Act Section 7 consultation.

FIRM

Louis Berger Group

EDUCATION

- BS, Environmental Science/ Cartography

REGISTRATION/CERTIFICATION

- Professional Wetland Scientist
- Certified Ecologist

RELEVANT PROJECT / WORK EXPERIENCE

NJ Transit, Independence Way Bus Facility, Indiana Bat Habitat Assessment, New Brunswick, New Jersey. Principal environmental scientist. Responsible for conducting field assessment and preparing findings report on federally listed Indiana bat and potential habitat within the project area. Present findings to USFWS for concurrence and utilized data in design concept. *2011. Reference information unavailable.*

NPS, Home of Franklin D. Roosevelt, Bog Turtle/Indiana Bat Assessments, Dutchess County, New York. Principal environmental scientist. Responsible for conducting a habitat assessment for the endangered bog turtle on 75 acres of land proposed for trail improvements. Included on-site investigation and completion of a USFWS habitat survey report (Phase 1) for use in trail/parking design considerations. *2010-2011. Reference information unavailable.*

Somerset County, Church Street Environmental Scoping, Basking Ridge, New Jersey. Task manager. Responsible for overseeing all aspects of environmental habitat assessment field work and documentation. Task included preparing field crew and review of environmental scoping document for use in design considerations. *2010. Reference information unavailable.*

NYSDOT, Wetland Delineation/Assessment, Bog Turtle Habitat Assessments, Taconic Parkway, New York. Task manager. Responsible for the managing environmental team that conducted wetland delineation and reviewed wetland delineation documentation. Conducted field assessment for bog turtle (Phase 1) habitat assessment per USFWS guidelines to document occurance of protected bog turtle habitat. Present findings to NYSDOT for inclusion in design report and environmental findings report. *2009-2010. Reference information unavailable.*

Pennsylvania Power and Light, Wetland Delineation, Susquehanna/Roseland; Pike, Monroe, Wayne and Lackawanna Counties, Pennsylvania. Principal environmental scientist. Responsible for the delineation of wetlands/watercourses along a 120 mile utility corridor in 5 counties within Pennsylvania. Utilized GPS to locate wetland boundary flags and prepared Jurisdictional Determination Request report for submission to US Army Corps of Engineers. *2009-2011. Reference information unavailable.*

Purchase Environmental Protection Association, EIS Review/Zoning Compliance, Parcel B Office Building, Town of Harrison, New York. Principal environmental scientist. Responsible for technical review of an EIS document proposed for impacts to wetlands/open waters by a developer in Connecticut. Compiled response on behalf of local environmental group. *2008-2011. Reference information unavailable.*

ANN FOLLI PWS
PRINCIPAL ENVIRONMENTAL SCIENTIST

Ms. Folli is a principal environmental scientist with Louis Berger, with 18 total years of experience, including 11 years with Louis Berger. She has experience completing wetland delineations, preparing wetland impact permit applications, assisting with the design and implementation of wetland mitigation sites, and completing monitoring activities in accordance with regulatory permit conditions. Ms. Folli has assisted with numerous ecological studies, including the assessment of wetlands and other habitats and the identification of flora and fauna species, including working with threatened and endangered flora and fauna species. Ms. Folli is also experienced with the required processes of wetland mitigation banking.

FIRM
Louis Berger Group

EDUCATION
- BA, Biological Sciences
- MS, Environmental Sciences

REGISTRATION/CERTIFICATION
- Professional Wetland Scientist Certification

RELEVANT PROJECT / WORK EXPERIENCE

New Jersey School Construction Corporation, Environmental Impact Statements (EISs), Multiple Sites, New Jersey. Principal scientist. Responsible for assisting in the preparation of EISs in support of proposed new elementary/middle schools at multiple locations within New Jersey. The EISs included assessments of potential environmental impacts, including regulated wetlands, open waters, and associated transition areas, threatened and endangered species and habitat to support those species, and regulatory responsibilities from each proposed action. *2003-2006. Reference information unavailable.*

South Jersey Transportation Authority, Atlantic City Expressway Widening Project (MP 0.0 to 2.8), Atlantic County, New Jersey. Principal scientist. Responsible for preparation and submittal of a Jurisdictional Determination request and Section 404 and Section 10 permit application to the USACE, Philadelphia District. Also responsible for preparation and submittal of a joint application for Coastal Area Facility Review Act, Waterfront Development, Tidal Wetlands (1970), and Freshwater Wetlands General Permit, as well as Water Quality Certification from NJDEP. The Jurisdictional Determination and Section 404/Section 10 Permit were approved by the USACE, as were all NJDEP permits. The Permitting process included an intensive wetland mitigation site selection study and the preparation of a Mitigation Plan to satisfy permit conditions. Provided construction support and permit compliance oversight, which included ensuring construction contractors were abiding by Essential Fish Habitat work restrictions imposed by permit conditions, that included regular coordination with several agencies, including Corps, National Marine Fisheries Service, and NJDEP in order to ensure protection of winter flounder habitat. Provided wetland mitigation construction and planting oversight of on-site tidal wetland restoration areas. Conducted annual monitoring of restored tidal wetlands and prepared annual reports for submittal to Corps and NJDEP. *2000-2008. Reference information unavailable.*

New Jersey Transit, Access to the Region's Core (THE Tunnel) EIS, New York and New Jersey. Principal scientist. Responsible for addressing several ecological aspects of a Draft, Supplemental Draft, and Final Environmental Impact Statement for the Access to the Region's Core/Trans-Hudson Express Tunnel (THE Tunnel) project, which is an ambitious project seeking to expand trans-Hudson River rail capacity to Midtown Manhattan. The project area extended from Frank R. Lautenberg Station in Secaucus, New Jersey, to Fifth Avenue and West 34th Street in Manhattan and would include a new rail yard in Kearny, NJ and two new tunnels under the Palisades and Hudson River, connecting to a new facility under West 34th Street in Manhattan. Also responsible for working with multiple regulatory agencies to identify permitting needs and mitigation strategies. *2003-2009. Reference information unavailable.*

BOP, EISs and Assessments, Wetland Delineations and Permitting, Nationwide. Principal scientist. Responsible for assisting in environmental impact analyses at several sites nationwide where federally sponsored correctional facilities have been proposed. Specific responsibilities included completing wetland delineations pursuant to the USACE's Wetlands Delineation Manual (Environmental Laboratory, 1987), assessment of impacts regarding vegetative communities, including wetlands, wildlife, including threatened and endangered species, acquisition of Federal and State permits, development of habitat managements plans, development of wetland mitigation plans and execution of required monitoring, including compilation and submittal of agency required monitoring reports. *2000 to present. Reference information unavailable.*

THOMAS SHINSKEY

ENVIRONMENTAL SCIENTIST

Mr. Shinskey is a principal biologist at Louis Berger with more than 15 years of work experience in the marine environment. He has technical expertise in the following areas: identification and biological sampling of fish, shellfish, marine mammals, sea turtles, and seabirds, marine and estuarine ecology, environmental impact assessment in coastal habitats, National Environmental Policy Act (NEPA) documentation/compliance, Essential Fish Habitat, natural resource damage assessment, and water/sediment quality evaluations. He spent four years working as a commercial fisheries observer in the Atlantic, documenting the by catch of sea turtles, marine mammals, and seabirds in a variety of fisheries. He has also performed plant, fish and benthic monitoring at tidal wetland restoration sites. Through his involvement on a variety of projects, he coordinates and negotiates with federal, state, and local regulatory agencies.

FIRM

Louis Berger Group

EDUCATION

- MS, Biolgoy
- BA, Natural Science

RELEVANT PROJECT / WORK EXPERIENCE

EarthMark New Jersey Kane Mitigation, LLC., Baseline Ecological Risk Assessment, Richard P. Kane Wetland Mitigation Bank, Carlstadt, New Jersey. Environmental scientist assisting in preparation of a Baseline Ecological Risk Assessment for wetland restoration activities proposed at the Richard P. Kane Tract, located within the Hackensack Meadowlands District. Fish tissue (mummichog) and sediments were collected from the proposed restoration site and the adjacent Hackensack River to calculate existing risks and potential future risks to terrestrial and aquatic wildlife from mercury in site sediments. *2010. Reference information unavailable.*

New Jersey Department of Environmental Protection (NJDEP), Environmental Investigation and Restoration of Matteo Iron & Metal Site and Adjacent Lower Delaware River Basin Estuary. Environmental scientist responsible for performing a variety of studies of an 80-acre site comprised of a former metal recycling facility and adjacent freshwater tidal tributary of the Delaware River. As part of the ecological evaluation and risk assessment, tissue analysis was conducted on wetland vegetation, fish, clams, and upland soil invertebrates. Chemistry analysis and 28- day sediment toxicity testing were also performed on surface sediment samples from the site and a nearby reference area. An assessment of the resident benthic macroinvertebrate and fish communities was conducted at the site and reference area in order to evaluate the ecological integrity of the aquatic system. Project results were used to for ecological risk assessment and develop remediation and restoration options for the site. *2003-2004. Reference information unavailable.*

National Park Service (NPS), Environmental Assessment (EA) of Personal Watercraft Use at National Seashores and National Recreation Areas. Environmental scientist responsible for assessment of impacts to water quality, submerged aquatic vegetation, and threatened and endangered marine species based on several personal watercraft management alternatives. Impacts to these natural resources were evaluated at the Sandy Hook, Staten Island, and Jamaica Bay/Breezy Point units of Gateway National Recreation Area, as well as Gulf Islands National Seashore, and Cape Lookout National Seashore. *2002-2004. Reference information unavailable.*

New Jersey Turnpike Authority, Interchange 6 to 8A Widening Project. Environmental scientist responsible for conducting wetland delineations along the New Jersey Turnpike according to the three parameter method of the US Army Corps of Engineers 1987 Manual. Performed wetland functions and values assessments and conducted USDA Stream Assessment Visual Protocol for streams in the project corridor. *2005. Reference information unavailable.*

ZACHARY DAVIS RPA

HISTORIC PRESERVATION, ARCHAEOLOGIST/PRINCIPAL

Mr. Davis's cultural resource experience has focused on significant transportation and real estate development projects throughout the Northeast and Mid-Atlantic states. His background includes archaeological investigations at prehistoric sites and he has extensive experience analyzing and replicating prehistoric lithic technology. Additionally, Mr. Davis has considerable experience with historic archaeological sites and has directed numerous archaeological investigations across New York City. As a principal archaeologist Mr. Davis is responsible for client interaction, preparation of innovative research designs, and overall technical supervision and implementation of research and field projects. He also prepares technical reports and agreement documents in compliance with Section 106 of the National Historic Preservation Act, Section 4(f) of the Department of Transportation Act, and state and local regulations. Mr. Davis has completed the 40-Hour Health and Safety training for Hazardous Waste Operations and Emergency response to meet the requirements of OSHA 29 CFR 1910.120 and is registered with the Register of Professional Archaeologists (RPA). Lastly, Mr. Davis has extensive experience with Geographic Information Systems (GIS) database development and analysis for cultural resources. In addition to his North American archaeological experience, he has conducted archaeological fieldwork and research in England, France, Syria, Jordan, and South Africa.

FIRM

Louis Berger Group

EDUCATION

- Interdepartmental Doctoral Program in Anthropological Science
- MA, Anthropology
- MA, Archaeology
- BA, Archaeological Studies

REGISTRATION/CERTIFICATION

- Registered Professional Archaeologist

RELEVANT PROJECT / WORK EXPERIENCE

New Jersey Turnpike Authority, Cultural Resources Eligibility/Effects, Garden State Parkway, Interchange 10 Improvements, Cape May Court House, New Jersey. Project manager. Cultural resource services associated with environmental compliance on three new interchanges on the National Register-eligible Garden State Parkway in Cape May County. Background research, archaeological fieldwork, identification of five previously unidentified archaeological sites (all eligible for listing in the NRHP), and survey of historic architectural resources within the view of the proposed project. Drafted archaeological mitigation plans for the identified archaeological sites and Memorandum of Agreement stipulating the steps needed to complete the project's environmental documentation. Assisted with the completion of the Section 4(f) document for cultural resources. *2004-Ongoing, John T. Withers, PE, PP 732.750.5300, withers@turnpike.state.nj.us*

South Jersey Transportation Authority and Federal Aviation Administration, Phase I Cultural Resource Investigation, Atlantic City Expressway Direct Connector Road, Egg Harbor Township, Atlantic County, New Jersey. Project manager. Supervised the preparation of a cultural resource investigation for the proposed direct connection between the Atlantic City Expressway and the Atlantic City International Airport access road. Field investigations identified no significant historic architectural resources and no archaeological deposits in the proposed project area. *2010-2011 Shawn Carpenter, 609.561.6643 ext.315, scarpenter@sjta.com*

New Jersey Turnpike Authority, Phase I Cultural Resource Assessment, Garden State Parkway Interchange 125 Improvements, Sayreville Borough and City of South Amboy, Middlesex County, New Jersey. Project manager. Supervised the preparation of Phase I cultural resource assessment for the proposed interchange improvements for compliance with E.O. 215, including the creation of a southbound exit ramp and a northbound entrance ramp to Chevalier Avenue at mile-post 125. Project area contains two historic properties and the proposed project will create an adverse impact to the Garden State Parkway Historic District. Mitigation in the form of HABS-HAER documentation will be completed to alleviate the adverse impact under E.O. *215. 2010-2011 Mike Grant, PE, 732.750.5300, ext. 8249, mgrant@turnpike.state.nj.us*

DEBORAH VAN STEEN

HISTORIC PRESERVATION, ARCHITECTURAL HISTORIAN

FIRM
Louis Berger Group

EDUCATION
- BS, Historic Preservation
- BA, Liberal Studies: History and Design, Minor in Business

Ms. Van Steen provides an array of cultural resource management and historic preservation services to transportation agencies and municipal governments for federal- and state-funded transportation projects in New York and New Jersey in compliance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, the National Environmental Policy Act (NEPA) of 1969, Section 14.09 of the New York State Historic Preservation Act of 1980, and New York's State Environmental Quality Review Act (SEQRA). These undertakings, from small rehabilitation planning projects to large corridor studies, have required the documentation and evaluation of a wide variety of historic resources, including college campuses and transportation, residential, agricultural, urban, and rural properties. Ms. Van Steen has managed architectural and cultural resource identification surveys and historical research, conducted determination of eligibility and project effects and impacts analyses, and prepared HABS/HAER documentation. While serving on the Ossining Historical Society Museum's Board of Trustees, Ms. Van Steen wrote and administered several historic preservation grants for the conservation treatment of historic objects and buildings and a historic landscape report. She has also prepared educational materials, brochures, and pamphlets. She has also worked on projects in Illinois and Pennsylvania.

RELEVANT PROJECT / WORK EXPERIENCE

New Jersey Department of Transportation (DOT), Cultural Resource Services, Route 33 Emergency Bridge Repair, Hightstown, Mercer County, New Jersey. Architectural historian. Prepared technical memo to address potential impacts to historic properties for emergency bridge repairs resulting from damage incurred during Hurricane Irene. *2011 William Birch, 609.530.3003, William.birch@dot.state.nj.us; Tina Shutz, 609.530.2543, Tina.Shutz@dot.state.nj.us*

NJTA, Cultural Resource Services, Garden State Parkway, Interchanges 9, 10, and 11, Middle Township, Cape May County, New Jersey. Architectural historian. Evaluation of State and National Register eligibility of and potential impacts to historic architectural resources adjacent to the parkway and related cross streets, and preparation of New Jersey Architectural Survey Forms. Determination was made of an Adverse Effect to the National Register-eligible Garden State Parkway Historic District. *2008-2009, John T. Withers, PE, PP, 732.750.5300, Withers@turnpike.state.nj.us; Maynard Abaun, 732.750.5300, mabuan@turnpike.state.nj.us*

NJTA, Cultural Resource Services, Garden State Parkway, Interchanges 9, 10, and 11 HAER, Middle Township, Cape May County, New Jersey. Architectural historian. Prepared Historic American Engineering Record (HAER) documentation of the Cape May By-Pass segment of the National Register-eligible Garden State Parkway Historic District as mitigation for elimation of at-grade intersections at the three interchanges. Documenation included research at the New Jersey State Archives, New Jersey Turnpike Authority, New Jersey Department of Transportation, and coordination with the The Cape May County Historical and Genealogical Society and Cape May Chamber of Commerce. *2013, John T. Withers, PE,PP, 732.750.5300, Withers@turnpike.state.nj.us; Maynard Abaun, 732.750.5300, mabuan@turnpike.state.nj.us*

NJTA, Cultural Resource Services, Garden State Parkway, Interchanges 35 to 38 Improvements, Egg Harbor Township, Atlantic County, New Jersey. Architectural historian. Identification and evaluation of historic architectural resources adjacent to the Garden State Parkway and interchanges within the project area, preparation of New Jersey Architectural Survey Forms, and assessment of potential impacts to historic properties including the National Register-eligible Garden State Parkway Historic District. *2013, John T. Withers, PE, PP, 732.750.5300, Withers@turnpike.state.nj.us; Lamis Malak, 732.750.5300., malak@turnpike.state.nj.us*

STEVEN BEDFORD PHD

SENIOR HISTORIC PRESERVATIONIST

FIRM

Louis Berger Group

EDUCATION

- PhD, Art History and Archaeology
- M.Phil, Art History
- MA, Art History
- B, Arch.

Dr. Bedford has been an architectural historian for more than two decades for clients including local governments, state agencies, transportation projects, and the military. He has worked in all aspects of cultural resource management and managed the production of environmental documents for major actions and master plans, and meets the qualifications required by the National Park Service (NPS) for architectural historians and has published, lectured and written on John Russell Pope. Dr. Bedford has a solid understanding of regulatory frameworks and permitting procedures for cultural resources. Dr. Bedford has worked with state agencies in New Jersey on various types of projects, including HAER Documentation, Preservation Plans, Section 106 and 4(f) consultations, and surveys. He has both reviewed and written the cultural resources sections of environmental documents. In the 1980s and 1990s, he conducted large scale surveys (500+ buildings) on Long Island in the town of North Hempstead, New York and the town of Fairfield, Connecticut. In that time period, he also reassessed historic districts on Long Island and in New York City.

RELEVANT PROJECT / WORK EXPERIENCE

Naval Facilities Engineering Command (NAVFAC) Headquarters Cold War Properties Historic Context and eligibility determination method, Nationwide, Lead Historian. Developed a nationwide history and context for interpreting the Navy's Cold War era properties and determining their National Register eligibility. Served as primary historian and researcher for multi year project. Created a document that has served as a blueprint for the Navy's assessment of Cold War properties. *2004-2009. Brian Lusher: blusher@achp.gov, 202.606.8580.*

NAVFAC Navy Region Hawaii Pearl Harbor Historical Context Study, Pearl Harbor Naval Complex, Honolulu, Hawaii. Lead Historian. The objective is to provide a comprehensive historical understanding of the base and its environs, which is a critical need for an active base that is also a National Historic Landmark and a national war memorial. Performed research and writing or reviewing chapters as they are submitted. *2009. Jeffrey n. Dodge Historical Architect, NAVFAC Hawaii, jeffrey.n.dodge@navy.mil, 808.474.2243*

New York City Metropolitan Transit Authority, National Register Nominations for 60 Subway Stations, New York City, Historian. This project was part of mitigation for unapproved station alterations and as part of the MTA's centennial. It covered the original subway stations and power substations throughout Brooklyn, the Bronx and Manhattan. Served as one of two historians who wrote and reviewed the subway nominations prior to submission to the New York State Office of Parks, Recreation and Historic Preservation (OPRHP). *2004-2005. Kathy Howe, Survey and Evaluation Coordinator, OPRHP, Kathy.Howe@parks.ny.gov, 518.237.8643, ext 2366.*

CT DOT, Program Management, Pearl Harbor Memorial Bridge I-95, Cultural Resources Program, New Haven Connecticut (for PB Americas). Lead historian; recorded two historic structures; developed salvage plans for two buildings; assisted in developing move plans for Yale Boathouse; and coordinated work by archaeological subconsultants; assisted in identifying potential sites of former bulkheads; *1998-2008. John Bartoletti. Bartoletti@pbworld.com, 860.659.0444.*

Port Authority of New York, JFK Airport, Unit Terminal Building Eligibility Assessment and Replacement EA, New York (for Landrum Brown) Historian Reversed Determination of Eligibility for the former PanAm terminal. Wrote cultural resources section of the EA. *2001 Thomas Klin, Thomas.klin@ch2m.com, 860.767.7121.*

JULIAN FERNANDEZ-OBREGON

SENIOR BIOLOGIST

Staff senior biologist responsible for various project database development, creation, and maintenance; New Jersey Right-To-Know (RTK) Program, and Community Right-To-Know (CRTK) Program Compliance, both to N.J.S.A. 34:5A and Emergency Planning and Community Right-to-Know Act (EPCRA) specifications, including but not limited to on-site inspections and inventory, state and local reporting, maintenance of Central File as well as maintenance of the Material Safety Data Sheet (MSDS) database for public and private entities; Development and deployment of Data Management and Analysis System for Lakes, Estuaries, and Rivers (DASLER) Database for the US Army Corps of Engineers (USACE), Louisville District, including but not limited to laboratory data analysis, manipulation, and organization within the DASLER software, and eventual merger of DASLER data with the WQX (Water Quality Exchange), a USEPA-maintained database for compiling available water quality data within the United States.

FIRM

PARS Environmental

EDUCATION

- BS, Biology

RELEVANT PROJECT / WORK EXPERIENCE

Database Engineer, USACE Louisville District, DASLER Software Implementation. Mr. Obregon is responsible for importing the last five years of unrefined data into the DASLER software, containing several hundred thousand samplings from various lakes, streams, reservoirs, rivers, etc. within the Louisville district. Much of the data was organized, rearranged to fit into the DASLER model. The DASLER software serves as an intermediary to interface with the Water Quality Exchange (WQX), a national database maintained by the US Environmental Protection Agency, compiling all available water quality information for all available sites in the United States. *August 2012. Jade L Young, 502.315.7439, jade.l.young@usace.army.mil; Gerald Burnette, 865.995.9953, burnspar@chartern.net.*

Right-To-Know Coordinator, PARS Environmental. Mr. Obregon is responsible for completing full New Jersey Right-to-Know Compliance (N.J.S.A. 34:5A and EPCRA) for over fifty clients, some with over fifty facilities each, for both public and private clients. Tasks include on-site inspections, taking inventory, entering data into PARS' web-based ChemMonitor 3.0 software, creation and submission of the final Right-To-Know Reports to the state, client, and local agencies. The reports are submitted to NJ State. Mr. Obregon is also responsible for the continuing RTK compliance, updating the ChemMonitor 3.0 software. *August 2009, Nick Taylor, 908.208.6134, nitaylor@rci.rutgers.edu; Rafael Torres, 865.262.4450, Phaedrus226@gmail.com.*

Database Engineer, PARS Environmental. Developed ChemMonitor 3.0 for PARS Environmental, as well as its predecessor, the 2.0 version, as an effort to streamline the Right-To-Know process, as well as serve as an online tool for clients, and act as a state-approved Central File. Worked closely with web developers and software engineers for several years to create and fine tune an easy-to-use, user-friendly, web-based program, which has been enthusiastically acclaimed by clients. *August 2001. Nick Taylor, 908.208.6134, nitayor@rci.rutgers.edu; Rafael Torres, 865.262.4450, Phaedrus226@gmail.com.*

EMILY ESCHE

SENIOR ENVIRONMENTAL SCIENTIST

Mrs. Esche has over 5 years of experience in a variety of projects ranging from environmental cleanups to conducting risk assessments. Her experience includes Phase I and Phase II Environmental Site Assessments at numerous commercial properties investigation and remediation at commercial and industrial sites, groundwater, surface water and sediment sampling, and data management.

FIRM

PARS Environmental

EDUCATION

- BS, Environmental Science

RELEVANT PROJECT / WORK EXPERIENCE

USACE, Louisville District, NEPA and ECPs for U.S. Army Reserve and Defense Logistic Agency. As an Environmental Scientist, Emily conducted analyses and documentation for USAR construction projects per the National Environmental Policy Act (NEPA). She performed the risk assessments for potential environmental impacts for U.S. Army Reserve (USAR) construction projects at 13 sites across the United States. She analyzed and assessed the hazardous and toxic materials and/or waste; aboveground and underground storage tank (AST/UST) assessments; asbestos, mold, lead and lead-based paint (LBP) considerations; radon, radiological, and materials of explosive concern (MEC) considerations; and PCBs. She provided support for the cultural resource surveys (archeological and architectural surveys) conducted per Section 106 of the National Historic Preservation Act (NHPA); Biological Evaluations (natural resources surveys) conducted per Section 7 of the Endangered Species Act. She also conducted wetland delineations. Using this documentation, he prepared an Environmental Assessment (EA), which concluded with an Environmental Impact Statement (EIS) or a Finding of No Significant Impacts (FNSI). *November 2010 to June 2013, Lenard Gunnell, PG, 502.315.6317, Lenard.P.Gunnell@usace.army.mil.*

U.S. Army Reserve and Defense National Stockpile Center, Providing Documentation for the 99th Regional Support Command Non-BRAC Disposals - 23 facilities in 8 States. As an Environmental Scientist, Emily was responsible for conducting analysis and documentation for USAR property disposals. Included are risk assessments for the USAR 99th Regional Support Command (RSC) property disposals for 23 sites across the northeastern United States. Properties are analyzed and assessed hazardous and toxic materials and/or waste; AST/UST assessment; asbestos, mold, lead and lead-based paint (LBP) considerations; radon, radiological, and materials of explosive concern (MEC) considerations. Emily provided support for Cultural resource surveys (archeological and architectural surveys) conducted per Section 110 of the NHPA, Natural Resource evaluations conducted per Section 7 of the Endangered Species Act. Record of Environmental Consideration (REC) and Finding of Suitability to Transfer (FOST) documents for each site were prepared. *August 2012 to August 2013 (70% complete), Craig Coombs, 502.315.6324, craig.a.coombs@usace.army.mil*

77th Regional Readiness Command (RRC), Army Reserve Installation Management (ARIM), Environmental Assessment, Ft. Drum, New York. Ms Esche assisted in the Environmental Assessment for Fort Drum, NY to assess the potential environmental impacts associated with the implementation of the Fort Drum U.S. Army Reserve Center (USARC) Construction Project and potential alternatives. This EA follows the guidance of the National Environmental Policy Act (NEPA), Army Regulation 200-2 (AR200-2), and all other applicable Federal, State and Local regulations. *August 2007 to October 2010, Ravi Ajodah, 718.352.5155*

Tab 7

EXPERIENCE OF BIDDER ON CONTRACTS OF SIMILAR SIZE AND SCOPE

EXPERIENCE ON CONTRACTS OF SIMILAR SIZE AND SCOPE

TAB 7

Facilitation of Environmental Review Process, Including Section 106 Historical Review Process City of Cedar Rapids, Iowa

In January 2009, Louis Berger was contracted by the City of Cedar Rapids to complete Section 106 and environmental reviews for CDBG-funded undertakings related to the devastating floods of June 2008. The historic reviews were conducted under a Programmatic Memorandum of Understanding that defined areas of exemption for CDBG-funded projects conducted during the flood-recovery. Louis Berger teamed with Stanley Consultants to conduct the environmental reviews and was tasked by the City to complete 150 statutory checklists for categorically excluded properties.

After conducting a number of individual project reviews, Louis Berger consulted with the City and FEMA and recommended that reconnaissance surveys be conducted in accordance a post-disaster FEMA agreement to streamline the review process. Louis Berger completed reconnaissance surveys of more than 3,000 properties in support of Section 106 reviews in May and June 2009. The successful completion of these surveys streamlined the review process for 2,000 residential and commercial properties.

Since January 2009, Louis Berger has provided a wide array of services through the contract including architectural reviews for 637 CDBG-funded homeowner and rental rehabilitation projects. Louis Berger consulted with owners of historic properties to develop rehabilitation plans that met the Secretary of the Interior's Standards for Rehabilitation. In addition to CDBG-funded rehabilitations, Louis Berger conducted reviews for several additional programs including 105 CDBG-funded steam conversion project reviews and reviews for 1,435 CDBG-funded buyouts. As a result of this project, Louis Berger has significant experience in completing Section 106 and environmental reviews for flood-recovery efforts in the City of Cedar Rapids and has also gained an understanding of the specific invoicing requirements for each type of project required by FEMA and HUD. Louis Berger is currently conducting historic and archaeological reviews for CDBG-funded projects under a new contract with the city.

Louis Berger's contract duties were expanded to implement a reconnaissance survey designed to cover a wide variety of flood-related projects for more than 3,000 properties.

Project Relevance

- ✓ Similar Scope and Extent
- ✓ Knowledge of HUD Procedures
- ✓ Familiarity with Flood-Recovery Facilitation

References

Cedar Rapids Department of Community Development

Paula Mitchell
319.281.5852
p.mitchell@cedar-rapids.org

Judy Lehman
319.281.5022
j.lehman@cedar-rapids.org

Beginning/End Date

2009 to present

Phase I Archaeological Survey for the Hazard Mitigation Grant Program Property Acquisition Project, Sans Souci, Riverside, and Sherwood Neighborhoods City of Waterloo, Iowa

Louis Berger completed Phase I archaeological investigations for planned demolition activities for the acquisition of properties under FEMA's Hazard Mitigation Program in Waterloo, Black Hawk County, Iowa. The Phase I investigation included review of 74 parcels that were approved for acquisition, 46 which contain structures and 28 which were vacant in the Sans Souci, Riverside and Sherwood Neighborhoods. All of these parcels were affected by the June 2008 flooding that occurred along the Cedar River in the City of Waterloo, Iowa. No intact artifacts or archaeological sites were identified within these 76 properties, and no further archaeological investigations or monitoring activities were recommended within the project area prior to the planned demolition of the properties. Louis Berger gained experience in conducting Phase I surveys in support of flood-recovery projects.

Project Relevance

- ✓ Similar Scope
- ✓ Knowledge of FEMA Procedures
- ✓ Familiarity with Flood-Recovery Challenges

References

City of Waterloo
Aric Schroeder
319.291.4366
aric.schroeder@waterloo-ia.org

Adam Poll
319.291.4366
adam.poll@waterloo-ia.org

Beginning/End Date

April to June, 2010

Professional Archaeological Monitoring and Consulting Services for Flood Damaged Structure City of Cedar Rapids, Iowa

Louis Berger is currently under contract with the City of Cedar Rapids to provide archaeological services for FEMA-related undertakings. As part of this contract, Louis Berger's archaeologists were hired to monitor demolition of flood-damaged properties including documentation of exposed cisterns, wells, and well-capping activities at the Sinclair property. As of March 1, 2012, Louis Berger has completed archaeological monitoring at 16 demolished properties in the Rompot Neighborhood; cistern/well documentation at 20 demolished properties in Rompot, Czech Village, Time Check, St. Patrick's, and Oak Hill neighborhoods; monitoring of well capping at the Sinclair property; and documentation of foundation remains associated with former 19th century residences and the old Washington High School at the former True North property on 4th Avenue SE. Louis Berger archaeologists understand the nature and breadth of archaeological deposits in the flood-affected area and have developed a working relationship with various demolition contractors working for the City.

Project Relevance

- ✓ Similar Scope
- ✓ Knowledge of FEMA Procedures
- ✓ Familiarity with Flood-Recovery Challenges

References

Cedar Rapids Department of Community Development

Paula Mitchell
319.281.5852
p.mitchell@cedar-rapids.org

Judy Lehman
319.281.5022
j.lehman@cedar-rapids.org

Beginning/End Date

October 2009 to Present

Hurricane Ike Disaster Recovery Program Services, Multiple Task Orders Galveston, Texas

Louis Berger, along with subconsultants/Vanguard Alliance partners HDR and PBS&J have supported the GPB by providing disaster recovery support, coastal/civil engineering, architecture, and construction/program management. Louis Berger is also assisting the GPB with assessing impacts and initiating project development as well as with their cleanup, recovery and restoration and mitigation actions. Louis Berger is responsible for:

- Documentation development and review
- Estimating and communications

To support GPB in managing their loss claims with FEMA, the state and their insurance policies in all parks owned and/or managed by the GPB, the City of Galveston and Galveston County, Louis Berger has prepared site and work specific bid packages for faster recovery and to maximize obtaining the eligible recovery funding for GPB. Louis Berger is providing various professional engineers and other technical specialists to evaluate damaged public facilities and infrastructure for all parks owned and/or managed by the GPB. Furthermore, Louis Berger has made recommendations on the methods of repair or replacement pursuant to FEMA's laws, regulations, and policies on eligibility. These sites and associated facilities include: Apffel Park (pavilion, crossovers, Baja Beach Club, bait shop, fishing pier, booths and infrastructure); Dellanara RV Park (infrastructure repairs, parking, general site clean-up, etc.); Seawolf Pavilion (bulkhead, vessels, buildings and naval display, toll booth, concrete, parking, picnic areas and shelters, playground, fishing pier and associated facilities, infrastructure); Stewart Beach (infrastructure repairs, stairs, and other damages); other buildings and sites such as the new Park Board Administration building, Beach Patrol facilities, Mardi Gras building, Welcome Center, the crossovers for all parks, and the sand re-nourishment on some of these parks. Louis Berger provided the cost estimates for repair or replacement of large projects, utilizing industry standards and FEMA's Cost Estimating Format (CEF).

Louis Berger's responsibilities also include project management, planning, and coordination on disaster and recovery assignments, and assisting with the immediate needs of the City, as well as the time-critical nature of these needs. Coordination efforts include receiving contractor's bids on specific projects. Louis Berger has also demonstrated its ability to maintain project records, budgets and accountability in such a way that federal (FEMA) funding is expedited to our clients and other grant applicants. Louis Berger knows both the process and the technical aspects, and helped the City's recovery and reconstruction efforts to move forward quickly and successfully.

Some of the GPB's facilities/parks are located in environmentally sensitive areas requiring knowledge of environmental compliance. Louis Berger has provided technical expertise to GPB reviewing projects for compliance with FEMA guidance and evaluation criteria including environmental regulations, biological assessments (mold) aid with other assessments, and reviews of other potential areas of impact such as wetland delineations, and other ecologically significant or geographically unique areas, and analyses to ensure that all reasonable alternatives have been evaluated.

Louis Berger's electronic file protocols are all compatible for use under FEMA's Web Page and assisting the GPB to better distribute documents through web-based applications, such as SharePoint®. Due to the familiarity of Louis Berger's team with FEMA's Information Technology Services Division, the information exchange is expected to be seamless.

Project Relevance

- ✓ Rapid Response
- ✓ Managing FEMA Loss Claims
- ✓ Coordinating Disaster Recovery Assignments
- ✓ Environmental Compliance
- ✓ Use of Web-Based Application to Manage Information Exchange

References

Park Board of Trustees
of the City of Galveston
601 23rd Street
Galveston, TX 77550

Mario Rebiago, Deputy Director
409.797.5000

Kelly de Schaun, Executive Director
409.797.5000
kdeschaun@
galvestonparkboard.org

Beginning/End Date

2008 to Ongoing

Toms River Township, Personal Property Debris Removal and Demolition Services for Emergency Situations

State of New Jersey

In the wake of Superstorm Sandy, which devastated New Jersey in October of 2012, the Township of Toms River issued a task order activating a statewide emergency-standby contract. Previously executed between Louis Berger and the New Jersey Department of Emergency Management, the terms of the contract allowed state agencies and local governments to utilize Louis Berger's services in the event of an emergency.
At start-up, Louis Berger worked with the Township of Toms River to obtain Rights-of-Entry and all property documentation in compliance with FEMA Public Assistance requirements. Project Specialists performed pre-work inspections with FEMA inspectors to create comprehensive project files on all properties participating in the programs. All data was tracked using an online database, which provided Berger and the client with instant online access to all information and documents relating to each applicant.
During the Destruction (Demolition) phase of the project, Louis Berger provided experienced debris monitors and field supervisors, in addition to a data management center to implement project documentation procedures designed to maximize recovery by strictly adhering to all of the debris monitoring policies and regulations contained in FEMA-325 (Public Assistance Debris Management Guide) and the FEMA 9500 series (as amended):

- Eligible properties were identified, rights-of-entry obtained, and pre-work inspections conducted
- Debris removal equipment was inspected and certified, disposal sites were researched and inspected, and records were kept documenting each
- Monitors at loading sites created individual load tickets documenting every cubic yard hauled
- Daily monitoring logs were kept to record performance, document the productivity, and ensure eligibility
- Exhaustive digital photography records were kept of debris sites and equipment
- Data management information was compiled daily and reconciled each evening, creating a situation in which close-out process has proceeded quickly and efficiently.

Louis Berger also provided construction management services during the demolition phase of the project. Louis Berger coordinated with the client and the contractor to ensure compliance with the contract, all federal, state, and local regulations, as well as all new Guidance provided in the aftermath of Superstorm Sandy. Louis Berger personnel coordinated the schedule, compliance, and closeout for the Demolition and Debris Removal on more than 200 properties.

- Proper documentation and permits were coordinated with homeowners and local officials
- Daily reports were sent out to Governing Authorities per State and Federal Regulations
- Meetings were performed with Contractor and Governing Authorities
- Louis Berger was on site to provide guidance to contractor and act as a liaison for the client
- Review and validation of each Contractor submitted invoice was performed before submittal to the client
- Final inspections were performed, photographic records were made, and properties were closed out in compliance with all Local, State, and Federal regulations

Project Relevance

✓ Emergency Recovery
✓ FEMA Documents

References

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Beginning/End Date

February 2013 to Ongoing

Hurricane Sandy Disaster Recovery Program Services, Multiple Task Orders The County of Ocean, New Jersey

Louis Berger was contracted in November 2012 by the Ocean County Board of Chosen Freeholders (the County of Ocean) to provide technical consulting for FEMA Public Assistance (PA) Program and insurance recovery activities associated with Hurricane Sandy. Louis Berger is currently providing disaster recovery support, assessing impacts, initiating project development and monitoring debris operations with the County of Ocean's cleanup, recovery and restoration actions for 17 county municipalities under the County of Ocean's Cooperative Services Agreement. In addition, Louis Berger is providing public assistance and hazard mitigation services to the County of Ocean and five additional county municipalities outside of the County of Ocean's Cooperative Services Agreement.

Louis Berger is aggressively identifying and pursuing all eligible projects, while strictly complying with FEMA and state procedural/eligibility regulations. Louis Berger is lessoning the County of Ocean's burden by having FEMA knowledgeable staff manage this process, speeding up the cash flow by getting eligible projects processed quicker, obtaining the maximum eligible value for the damage, identifying hazard mitigation opportunities to minimize future impacts, and aiding in recovery to get the facility back to its pre-existing condition and/or function faster.

Louis Berger is working with the County of Ocean to develop scope and define projects for FEMA eligibility and manage this process for categories such as:

- Public assistance
- Debris (loading, hauling and disposal)
- Demolition private property debris removal
- Emergency protective measures
- Roads and bridges
- Water control facilities
- Buildings and equipment
- Utilities
- Parks, recreational and other facilities

Louis Berger's responsibilities also include project management, planning, and coordination for disaster and recovery assignments, and assisting with the immediate needs of the County of Ocean, as well as the time-critical nature of these needs.

Lastly, Louis Berger is demonstrating its ability to maintain project records, budgets and accountability in such a way that federal (FEMA) funding is expedited to our clients and other grant applicants. Louis Berger knows both the process and the technical aspects, and is helping the County of Ocean's recovery and reconstruction efforts to move forward quickly and successfully.

Project Relevance

- ✓ Coordination with local government stakeholders in addition to diverse state and federal agencies
- ✓ Management of Diverse Projects
- ✓ Management of Diverse Federal Programs

References

Freeholder Jack Kelley
732.929.2003

Beginning/End Date

Ongoing

U.S. Postal Service, New York Facilities Service Office, Environmental Services Indefinite Quantity Contracts

New York Metro Area

Louis Berger has been providing environmental, A/E, and compliance services for the New York Facilities Service Office (FSO) since 1996. Louis Berger is currently on its third consecutive multi-year contract for these services at owned or leased postal facilities within the entire New York Metro Area, and has included numerous and diverse task orders throughout the various Postal Districts in New Jersey, New York, and Puerto Rico. Services provided under these contracts have included lead and asbestos surveys and abatement and O&M oversight, environmental and OSHA audits, property transaction support (including Phase I ESAs, Phase II investigations, mold inspections and geotechnical studies), indoor air quality evaluations, OSHA/EH&S industrial hygiene audits and training, remedial site investigations, hazardous waste studies, remediation of contaminated sites and facilities, spill prevention, emergency response planning and pollution prevention studies, personnel training support (i.e. asbestos management training), UST investigation and closure, compliance plan preparation and support (i.e. SPCC plans and SWPPPs), contractor management, and other assignments. A sampling of these projects includes the following:

Various Permitting Services. Louis Berger has provided the NYMA with a variety of permitting services during the procurement and recertification process for multiple facilities within the Area for a variety of operating permits. Examples include:

- Operating Permits for Boilers – Louis Berger assisted the USPS with six sites in the New York District (Manhattan VMF, Soundview Station, Bronx GPO, Murray Hill Station, Madison Square Station, & Peck Slip Station) and two sites in the Triboro District (Brooklyn P&DC and Staten Island Processing & Distribution Facility [P&DF]) that required certificates of operation (COO) applications to be submitted to the NYCDEP;
- Air Permit Preparation – Louis Berger prepared and submitted the application package for the air operating permits for the Jersey BMC's boilers and chillers;
- Air Permit Preparation – Louis Berger prepared and submitted the application package for the air operating permit for the Hicksville VMFs paint spray booth;
- SWPPP Recertification – Annual Form "D" recertification forms for the SWPPPs at the Kilmer P&DC/VMF and the Jersey BMC were prepared and submitted to the NJDEP.

Storage Tank Management Services. Louis Berger has provided a variety of storage tank compliance services for the USPS throughout the New York Metro Area. Some specific project examples are described below:

- Bronx ESPPA – The USPS was under a consent order by the NYSDEC to address the compliance of an existing heating oil UST located within the building footprint of this facility. Louis Berger coordinated the activities to address the consent order by having the entire UST system tightness tested, scheduling and overseeing the cleaning of the tank system and the in-place closure and site restoration activities, revising the NYSDEC tank data to reflect the current situation at the facility, prepare all the closure documentation, negotiate with the NYSDEC regulators and discuss the followup investigations, and conduct all the necessary subsurface/ground water investigations that were agreed upon submittal of the closure documents.
- Wayne-Packanack Lake MPO – Louis Berger provided the USPS with tank removal surveillance services during the excavation activities of an existing, leased USPS facility. Berger verified that the contractor and the consultant hired by the building owner were conducting the closure activities in accordance with NJDEP regulations and that the interests of the USPS were well represented throughout the process;
- Seaside Heights MPO, New Jersey – Louis Berger provided construction oversight services during the removal of the UST previously located at this facility. Additionally, Berger was responsible for preparing and submitting all the closure documentation to the NJDEP, collecting the necessary soil

Project Relevance

- ✓ Asbestos/Lead/Indoor Air Quality Surveys, Monitoring, Mitigation, and Remediation
- ✓ Emergency Response Actions and Remedial Services/ Hazardous Materials Management
- ✓ Site Remediation

References

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Beginning/End Date

1996 to Ongoing

samples, and confirming the quantities of units (i.e. manpower, equipment, supplies) that the contractor used to complete the tank removal activities.

Trenton VMF Environmental Investigation. Louis Berger investigated the existing hydraulic lifts and evaluated the impact of leaking hydraulic oil on the surrounding soil and groundwater. This work was performed on an accelerated basis in preparation for the replacement of these vehicle lifts with new electric lifts. Additionally, the field efforts were coordinated so as to not affect the ongoing anthrax decontamination project that was occurring adjacent to the Trenton VMF throughout the entire process. Louis Berger coordinated the cleaning of all the existing pits and the disposal of the contents following the cleaning and conducted geoprobe borings throughout the locations of the lift pits to adequately assess the subsurface conditions of the soil/groundwater. As a result of this initial investigation, Louis Berger recommended to delineate the free phase hydraulic oil that was identified during the initial investigation, which included the evaluation of the migration pathways and actual or potential receptors of any contamination. Berger prepared a Remedial Investigation Report (RIR) to address the concerns of the NJDEP, however, recommendations were made to aggressively remediate the existing contamination. The remediation has been complete and a Deed Restriction put in place for the property to address residual contaminated material that could not be excavated due to structural concerns with the facility. The NJDEP issued a Conditional No Further Action on this project in April 2012 with a requirement for biennial deed restriction certifications.

Various Projects, New Jersey. Louis Berger provided comprehensive environmental consulting and engineering services for facilities throughout Central New Jersey including Environmental Compliance Audits/Reviews, Phase I Environmental Site Assessments and Transaction Documentation, site investigations, hazardous waste studies, remediation of contaminated sites and facilities, spill prevention plan preparation, emergency response, pollution prevention studies, lead and asbestos surveys and abatement, personnel training support, underground storage tank (UST) investigation and closure, and contractor management. A few specific work orders are highlighted below.

- Summit, NJ Main Post Office Remedial Activities. In Summit, New Jersey, Louis Berger provided site remediation and monitoring services for a formerly leaking fuel oil underground storage tank (UST) at the local post office. Berger was responsible for the original investigation and closure work under a previous contract, continued conducting long-term monitoring and free product removal services pursuant to the agreement negotiated with NJDEP for no active remediation being required. Semi-annual groundwater sampling is confirming the success of Berger's previous work and Classification Exception Area determination gained from NJDEP.

- Pollution Prevention Plan Development and Preparation. Louis Berger also completed comprehensive Pollution Prevention Plans and Waste Reduction Evaluations for eleven large postal facilities, including four in Central New Jersey. These plans were developed based on comprehensive facility audits designed to specifically identify cost savings and enhanced environmental management practices consistent with USPS pollution prevention and waste minimization policies. To facilitate this work, Louis Berger developed detailed audit questionnaires and an electronic data management and evaluation spreadsheet system to ensure thoroughness, consistency and cost-effectiveness. Work specifically included a detailed analysis of applicable state and federal requirements. In addition, Louis Berger was responsible for the training of USPS facility personnel to ensure proper implementation of the plans.

- Asbestos/LBP/Lead in Drinking Water Program. Louis Berger has been actively involved with New York Metro Areas asbestos and lead survey/abatement program by performing investigations, screening (using an XRF on site), sampling, and testing and developing recommendations for abatement as part of resulting lead and asbestos-containing materials O&M plans, and personnel training at dozens of different postal facilities. Louis Berger also implemented USPS's EMIS database system as part of completing some of this work.

- Property Acquisition Support. Louis Berger has provided due diligence, site acquisition and property transfer process services over the last 10 years for numerous Postal facilities, including: Phase I Environmental Site Assessments, sampling and limited Phase II site investigations, and various due diligence support for new and existing sites in Putnam Valley, Mahopac Falls, Floral Park, Marlboro, Montgomery, Piermont, New York; and sites throughout New Jersey such as the West Jersey P&DC and New Providence MPO.

New Jersey Department of Treasury, Agency Consultant Environmental Services Contract New Jersey

NJ Health & Agriculture Laboratory: Phase I Decomissioning Assessment, Trenton, New Jersey. The original New Jersey Health and Agriculture Laboratory (H&A Lab) facility, located at Market and South Warren Streets in downtown Trenton was recently replaced by the new Public Health, Environmental and Agricultural Laboratory (PHEAL) facility located in West Trenton. To facilitate H&A Lab decommissioning and ultimate facility re-use, demolition or property transfer, Louis Berger was contracted by DPMC to perform an initial inventory, facility survey and risk assessment typically associated with Phase I laboratory decommissioning efforts at the original 72,000-square foot H&A Lab in support of a Needs Analysis Study. The Phase I effort was performed to provide technical information necessary to assist with determining the future best use of the property with respect to risk to the public via direct contact and/or environmental impacts to personnel performing decontamination and/or demolition and/or future occupants. Information gathered as part of this effort was acquired through a review of historical floor plans, a review of relevant state- and facility-specific environmental, radiological, biological, chemical and hazardous material documents, a facility walkthrough, including the identification and (in some instances) quantification of specific and general hazards, and interviews with facility personnel whose experience with the facility has extended up to the last 40 years. Louis Berger identified potential general hazards, including: 1) Asbestos-containing materials (ACM), 2) Potential lead-based paint, 3) Water damage, 4) Mold growth, 5) Universal waste.

NJ Public Health, Environmental & Agriculture Laboratory: Water Damage Assessment, West Trenton, New Jersey. Louis Berger provided a variety of services to the New Jersey Builders Association (NJBA) for the construction of the approximately $150M, 275,000 square-foot New Jersey Public Health, Environmental and Agricultural Laboratory (NJ-PHEAL) currently under construction in West Trenton, New Jersey, including cost estimating, scheduling, and construction consulting services. In response to water damage caused by the burst of a de-ionized water line on the third floor of the facility, Louis Berger was further retained by NJBA to provide risk management services regarding the required reconstruction work. Louis Berger's duties included preparing reconstruction schedules, monitoring the progress of the reconstruction to ensure all work is completed in accordance with specifications and preparing cost estimates. Other services provided by Louis Berger in this on-call emergency response capacity include the following tasks:

- Assessments of potential mold, indoor air quality and impacted building materials damage as a result of the recent water leakage at the facility
- Provide DPMC with ongoing, real-time assessment findings and recommendations to facilitate mitigation and remedial actions and procedures needed for continued construction progress
- Certified industrial hygienists conducted on-site evaluations and surveys of impacted areas and materials to determine the nature and extent of observable damage
- Conducted extensive indoor air and materials sampling, as well as monitored the air/materials sampling and damage assessments conducted by construction contractors timely
- Provided timely recommendations for corrective actions required to abate, mitigate and remediate the impacted facility's materials, laboratory instrumentation and equipment.

Greystone Psychiatric Hospital: PA/SI – Parsippany, New Jersey. Louis Berger was engaged by NJ Treasury's DPMC a Preliminary Assessment (PA) and subsequent Site Investigation (SI) of selected portions of the Greystone Park Psychiatric Hospital ("Greystone") in preparation for final closure and to facilitate the purchase of the Site from the New Jersey Department of Human

Project Relevance

- ✓ Rapid Response
- ✓ Environmental Assessment
- ✓ Involved Emergency Response/Rehabilitation
- ✓ Mitigation and Remediation of Water Damage
- ✓ NJ Department of Treasury Project

References

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Duration

2004 to present

Services (DHS) and/or ultimate site demolition and restoration plans. The purpose of the PA/SI was to identify, to the extent feasible, the presence or likely presence of environmental Areas of Concern (AOCs) on or near the Site via visual observations and historic file reviews, and subsequently confirm presence, nature and extent of suspected environmental issues via follow-up field inspections and sampling of various site media and structural materials. A brief description of the PA, SI and other related tasks performed to by Louis Berger is provided as follows:

- ***Database and Historic Resource Reviews.*** Louis Berger obtained an electronic environmental database report and Geographic Information System (GIS) files to identify and map potentially contaminated areas at and around the Site. In support of the review of the historical operations at the Site, we obtained and reviewed historical aerial photographs, Sanborn Fire Insurance Maps, historical topographic maps, city directories and industrial directories, as available, from a commercial vendor.
- ***Government Agency Contact and File Reviews.*** Louis Berger provided the management and professional support personnel needed to contact Federal, State and local regulatory and government agencies to inquire as to the availability of any records pertaining to the Site. Louis Berger reviewed and evaluated any readily available information, either through on-site visits or by obtaining copies of records from the agencies.
- ***Site Inspections.*** Louis Berger completed an inspection of the forty-four (44) buildings and vacant parcels that were the focus of the PA/SI effort.
- ***GIS Database Development and Mapping.*** Louis Berger developed of a project-specific GIS database and the mapping of aerial photographs and associated attributes of each of the 44 focus areas. Photographs are linked to a summary of the findings for each area.
- ***Site Sampling and Investigation Plan (SSIP).*** Based on the findings of the PA effort, an SSIP was prepared and implemented. The SSIP provided a detailed scope of work for field-related remedial investigations conducted during the Site Investigation. The SSIP included: site background information; present the known nature and extent of contamination; identify data gaps; detail field sampling locations and procedures; and list proposed analytical methodologies.
- ***Site Investigations (SI).*** Louis Berger implemented all field sampling and investigation tasks included in the SSIP, including detailed field inspections and sampling of all identified AOCs and facilities.
- ***Report Preparation.*** Louis Berger prepared and submitted the Final PA & SI Reports to DPMC and NJDEP upon project completion.

Marlboro Psychiatric Hospital: RI/RAS – Marlboro, New Jersey. As DPMC's environmental consulting contractor for the investigation of multiple AOC's throughout this site to help facilitate potential sale and/or redevelopment of the 400(+) acre complex, Louis Berger performed a complex-wide ASTM Phase I/II compliant site assessment and remedial investigation to identify and provide evaluations of viable remedial actions and associated costs for any existing contamination situations or other environmental liabilities and regulatory non-compliances.

A key component of this project was the indoor chemical inventory and hazardous materials surveys in the former medical facilities, laboratories, and storerooms that comprise a large component of the facility. This also included the development of a database and GIS system to manage the information and results of the assessment for the over 100 buildings at the site, including buildings and elements such as a hospital/lab, storage tanks, dormitories, offices, maintenance shops, farm facilities, water/wastewater facilities, power plant, fuel farm, site-wide steam distribution systems, railroad tracks and laundry facilities. Soil, groundwater, surface water, sediments and air (indoor and outdoor) quality were investigated, along with diverse contaminants and materials of concern including lead and asbestos, radon, chlorinated solvents, fuels, metals, radioactive materials, PCBs, pesticides, herbicides, medical wastes and solid wastes.

As part of this sitewide assessment and remedial investigation, Louis Berger performed an independent comprehensive research study of local and regional arsenic concentrations detected in soils. The results of this study proved to the satisfaction of the NJDEP that previously detected and suspected arsenic levels in site soils were, indeed, well within the range of naturally occurring levels for that region of the state. These conclusions helped Louis Berger to successfully argue and get approval by NJDEP that previously anticipated extensive, costly and time consuming investigation and remediation of arsenic in site soils would not be needed and, thereby, saving DPMC and the State Treasury and estimated $1M dollars and possible years of delays by eliminating unnecessary work at this site. Based on Louis Berger's expedited assessments, remedial investigations and independent research, accurate cost estimates for site remediation were submitted to in a timely manner which satisfied DPMC's fast tracked schedule, and have acted as an integral part of the State's ultimate property transfer and/or site demolition and restoration plans.

Lower Manhattan Recovery Projects Database New York City, New York

Through the next decade, Lower Manhattan will be one of the key centers of redevelopment activity in New York City. Rebuilding and recovery efforts at the World Trade Center site, enhancements to public transit open space, and streetscapes, and private development projects will be taking place throughout a residential and commercial neighborhood vital to the future of New York City. To assist in its responsibilities for the World Trade Center redevelopment and memorial plan and administration of redevelopment grants, the Lower Manhattan Development Corporation asked Louis Berger to design a database that would track key development projects and environmental features in the community.

The Lower Manhattan Recovery Projects Database was designed to ensure that projects are coordinated to the maximum extent possible to minimize impacts during construction and operation, identify opportunities for additional project benefits through coordination, and to inform the public and decision makers. In providing a common base of information about past, present, and future actions, trends, and conditions, the database will promote the evaluation of cumulative impacts in the environmental documentation for each of the recovery and rebuilding projects

The database was assembled in Microsoft Access and was designed with a user-friendly interface that automates the process of data queries and analysis. The database provides key information on priority projects in Lower Manhattan including schedule, budget, and profile information (location, contact information, square footage by use). The database, which provides the connection between projects and the environment in which they will be built and operated, contains information on key Lower Manhattan resources including:

- Census block group demographic and income statistics
- Land use, building type, and property value and tax information
- Historic districts and designated resources
- Community facilities by type
- NYCDOT schedule for Lower Manhattan street reconstruction
- Traffic volumes and turning movements at major intersections (pre 9/11/2001 and 2003)
- Inventory of planned and potential land use changes (new developments, conversions)

The user interface offers the choice of viewing information by project (assembling tables of resources within the project's primary study area (typically one-quarter to one-half mile)), or by resource types. Predefined queries allow for quick retrieval of information for users without formal training in database operation. For example, a user could search for all planned development projects in 2007; all public schools in Lower Manhattan; or all street reconstruction projects affecting William Street sorted by year. Many of the tables are keyed to New York City's building identification numbers or parcel block and lot numbers to facilitate GIS mapping and analysis.
The Lower Manhattan Projects Database has been used in the assessment of impacts for LMDC's annual reporting to HUD on the progress of its partial action plans.

Project Relevance

- ✓ Development of data management system for planning and grant administration
- ✓ Tracking of performance measures for reporting to United States HUD
- ✓ Demographic analysis and mapping for communication of recovery program

References

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Duration

2002 to 2003

U.S. Postal Service, Facility Damage Assessments
Various Locations, Nationwide

Louis Berger has an extensive list of personnel and subconsultants with offices located in all functional areas of the Postal Service. As such the Louis Berger Team is positioned to assist anywhere at anytime when a Postal Facility becomes damaged and requires an assessment to be conducted. To date, Louis Berger has conducted more than 100 facility assessments utilizing the Postal Services Facility Assessment Tool: Security and Health Assessment Form (FAT) to document the level of damage and list of concerns requiring mitigation at a facility prior to Postal reoccupation.

Damages to facilities can be natural or man-made and Louis Berger has conducted damage assessments resulting from:

- Floods
- Hurricanes
- Tornadoes
- Indoor water leaks
- Heavy snow
- Automobile building impacts
- Mold growth
- Asbestos concerns
- Poor building maintenance

Louis Berger draws upon highly educated and qualified staff to perform these assessments nationwide. Amongst countless others, Louis Berger pulls regularly from its staff of:

- Industrial hygienists
- Structural engineers
- Mechanical engineers
- Electrical engineers
- Civil engineers
- Hazardous waste specialists

Facility Renovation Checklists. Upon completion of facility renovation and cleanup activities, Louis Berger will conduct a Facility Post-Cleanup/Renovation Inspection Checklist (FRAC) to assess whether the recommendations and/or requirements of the FAT Assessment were completed and to determine if the Facility is suitable for employee and customer access. Typically, Berger will send the same individual(s) who performed the FAT to perform the FRAC.

Project Relevance
Facility Assessments
Flood Damage Assessment
Asbestos Concerns

References
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Duration
2006-present

Louise Nevelson Plaza Redesign
New York, New York

Louis Berger has prepared an Environmental Review Record (ERR) for the Louise Nevelson Plaza Redesign, in Lower Manhattan. The project will enhance the Louise Nevelson Plaza by upgrading illumination, accessibility, and the aesthetics of the existing space.

Activities proposed include: highlight the Louise Nevelson sculptures so they are the Plaza's centerpiece, as intended; additional and better-suited trees to compliment the sculptures; increase seating to make it more accessible to pedestrians; increase public safety with the installation of lighting to activate the plaza at night to make it more welcoming, and a new Federal Reserve Guard-booth that better fits the plaza design.

The ERR has been prepared on behalf of the Lower Manhattan Development Corporation (LMDC) and the United States Department of Housing and Urban Development (HUD).

The purpose of this project is to improve one of the largest publicly-owned open spaces in Lower Manhattan's Financial District and to enrich the cultural resources of Lower Manhattan.

This project would provide public facilities that add to the quality-of-life for all communities in Lower Manhattan and draw residents and visitors to the area, contributing toward the restoration, stabilization and enhancement of Lower Manhattan which was severely impacted by the September 11, 2001 attacks on the World Trade Center.

The project would enhance the open space and public amenities in an area with a large and dense population consisting of office workers, visitors and residents.

Project Relevance
- ✓ Prepared Environmental Review Record
- ✓ HUD Project

References
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Duration
2006 to 2007

U.S. Army Reserve DNSC, Providing Documentation for the 99th Regional Support Command Non-BRAC Disposals

23 Facilities in 8 States

PARS is tasked by the USACE to prepare environmental documentation to support the ultimate disposal of 23 facilities that are no longer needed to support the mission. Documentation for the disposals consisted of Environmental Condition of Property (ECP) Reports, Section 110 of the National Historic Preservation Act (NHPA) surveys, Record of Environmental Consideration (REC), Section C Disposal Reports, and Finding of Suitability to Transfer (FOST). These 23 facilities are located in NJ, NY, CT, PA, MA, RI, MD and NH.

PARS is preparing the ECP Reports in conformance with Army Regulation 200-1 and in general conformance with American Society for Testing and Materials (ASTM) Designation D6008-96 (2005), Standard Practice for Conducting Environmental Condition of Property and E1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The ECP Reports evaluate environmental conditions of the property, which include evaluating historical and current issues relating to potential PCBs; lead and lead-based paint (LBP); potential soil and groundwater contamination; underground storage tanks (USTs) and aboveground storage tanks (ASTs); wetlands and wetland delineations; mold surveys/investigations; cultural/ natural resources surveys; archeological surveys; environmental baseline surveys; environmental assessments; environmental impact statements; and overall range and facility management.

ECP Update Reports are being prepared for ECPs older than 180 days. Where the Regional Support Command (RSC) confirmed the action is categorically excluded from documentation in an environmental impact statement (EIS) or an Environmental Assessment (EA), PARS is preparing the Record of Environmental Consideration (REC). PARS is assisting the 99th RSC in coordinating with the State Historic Preservation Office (SHPO) where Section 110 is being performed. PARS is also assisting the 99th RSC with the U.S. Fish and Wildlife Service (USFWS) coordination for natural resources pursuant to Section 7 of the Endangered Species Act in determining whether the proposed action will have an "effect" or "no effect" on any federally listed threatened or endangered species, or their habitats. PARS is completing Section C of the Disposal Reports using information obtained while preparing the other documents and preparing a Finding of Suitability to Transfer (FOST) where applicable. The FOST is intended to determine whether the property is environmentally suitable for its intended use and whether there should be any restricted use of the property. Section 110 Surveys include Architectural Surveys and Determination of Eligibility (DOE) and Phase I A and B Archaeological Surveys. As part of the Section 110 process, DOEs for twelve U.S. Army Reserve Centers for the National Register of Historic Places (National Register) are being conducted to assess potential impacts to cultural resources.

Project Relevance

- ✓ Environmental Condition of Property Reports
- ✓ Wetland Delineations
- ✓ Cultural/Natural Resources Surveys
- ✓ Archaeological Surveys
- ✓ EAs
- ✓ EISs

References

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Duration

November 2010 to June 2013

"I just wanted to point out that we are receiving first-rate draft documents (Archeological Phase I, ECP, EA) from PARS Environmental on the project to build the 99th U.S. Army Reserve Center in Edgewood. PARS Environmental is an 8(a) firm - we should keep them in mind for future work." "The report looks good and it sounds good. The QA effort shows. I wish they all looked and sounded like this."
-Ms. Judith Weintraub, U.S. Army Garrison APG Directorate of Public Works, Environmental Division Position Regarding PARS' work at the 99th U.S. Army Reserve Center

77th Regional Readiness Command (RRC), Army Reserve Installation management (ARIM), Phase IA Archaeolgoical Surveys and Section 106 Compliance Fort Drum, New York

PARS Environmental, Inc. (PARS) was retained by the 77th Regional Readiness Command (RRC), Army Reserve Installation Management (ARIM) to oversee the tasks outlined below.

Project 4: Phase IA Archeological Surveys, New York and New Jersey for Fort Drum USARC. PARS was retained by the Army Reserve Installation Management (ARIM) to conduct a Phase IA Archeological Survey of 45 facilities within New York State and New Jersey managed by the 77th ARIM. PARS was responsible for providing all necessary labor, materials, equipment and services in order to successfully complete this action.
The Phase IA was completed per the requirements of the NHPA and 36 CFR 60. The Phase 1A consisted of field reconnaissance and archival research that would be utilized to draw conclusions and recommendations. PARS completed the following tasks for each of the 77th ARIM managed facilities:

- Background investigation
- Develop archeological expectations for site locations within the Area of Potential Effect (APE)
- Field investigation and reconnaissance
- Reporting

Project 5: Section 106 Compliance for Fort Drum USARC. The 77th Army Reserve Installation Management Office (ARIM), Department of the Army Headquarters, United States Army 77th Regional Support Command (RSC) completed a phased demolition of the accessory structures associated with the former Rocky Point/Brookhaven Nike Missile Launch Facility prior to redevelopment. This undertaking was subject to Section 106 of the National Historic Preservation Act of 1966, as amended. PARS was retained to assist with the Section 106 Compliance Process and to draft a Programmatic Agreement for execution by the 77th RSC and the State Historic Preservation Office (SHPO).

Project 6: Environmental Assessment for Fort Drum, New York. PARS was retained by the 77th Regional Readiness Command (RRC), Army Reserve Installation Management (ARIM) to complete an Environmental Assessment (EA) to assess the potential environmental impacts associated with the implementation of the Fort Drum U.S. Army Reserve Center (USARC) Construction Project and potential alternatives. This EA follows the guidance of the National Environmental Policy Act (NEPA), Army Regulation 200-2 (AR200-2), and all other applicable Federal, State and Local regulations. PARS prepared the final report that included, but was not limited to, the following:

- Purpose, Need and Scope
- Description of the Proposed Action
- Alternatives
- Affected Environment and Consequences
- Land Use
- Aesthetics and Visual Resources
- Air Quality
- Noise
- Geology and Soils
- Water Resources
- Biological Resources
- Cultural Resources
- Socioeconomics
- Transportation
- Utilities
- Hazardous and Toxic Substances
- Mitigation Summary
- Findings and Conclusions

Project Relevance

- ✓ Cultural/Natural Resources Surveys
- ✓ Archaeological Surveys
- ✓ Environmental Baseline Surveys
- ✓ Environmental Assessments

References

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Duration

August 2007 to October 2010

Tab 8

ADDITIONAL EXPERIENCE OF BIDDER

ADDITIONAL EXPERIENCE OF BIDDER

TAB 8

KNOWLEDGE OF NEPA REQUIREMENTS, 24 CFR PART 58; 24 CFR, PART 55 AND OTHER FEDERAL LAWS AND AUTHORITIES

Louis Berger has successfully completed **more than 400 NEPA documents for more than 20 federal agencies** since 1995, and has also provided **technical review for more than 230 NEPA documents** since 2000. **No Louis Berger-prepared environmental impact statement (EIS) has been successfully litigated.**

The Louis Berger Team understands that, as the overarching federal statute requiring agencies to identify and analyze the potential environmental effects of their proposed actions and alternatives, NEPA sets forth a structured approach to environmental impact analysis for agencies' planned programs and projects. NEPA serves as an umbrella under which the requirements and procedures of other existing and applicable laws are to be addressed. These include: Fish and Wildlife Conservation Act, Endangered Species Act (ESA), Clean Water Act (CWA), Clean Air Act (CAA), National Historic Preservation Act (NHPA), and other applicable laws, regulations and Executive Orders (EOs).

Historic Preservation (36 CFR Park 800)

With nearly 100 archeologists, historians, and architectural historians and one of the largest cultural resources practices in the country, Louis Berger has broad-based experience in the identification, evaluation, mitigation, and management planning of prehistoric, historic, and industrial archaeological resources, and historic buildings and structures under NHPA.

Floodplain Management (Executive Order 11988)

Executive Order 11988 requires federal agencies to take practical steps to avoid long and short-term adverse impacts to flood plains and to avoid support of floodplain development wherever there is a practicable alternative. Our staff of hydrologists, planners and scientists has conducted the necessary project evaluations and modeling to demonstrate project compliance for federally sponsored or funded projects, and integrated those results into Design Reports and NEPA documentation. An example project includes:

NEPA Environmental Assessment for Amsterdam Pedestrian Bridge over the Mohawk River, New York. Louis Berger planners and scientists managed the preparation of a NEPA EA for the proposed construction of a pedestrian bridge over the navigable Mohawk River. As part of the EA process, an evaluation of potential effects of actions to be taken within the floodplain, and alternatives to avoid any adverse effects were considered was performed in compliance with EO 11988. Since the project alternatives require the use of a floodplain, there was an attempt to minimize potential impacts, and consistent with the regulations issued in accord with section 2(d) of this Order. It was necessary to determine what, if any, hydraulic impacts would result from the proposed structure and to demonstrate that any hydraulic impacts encountered upstream or downstream of the structure would be negligible. To evaluate the hydraulic impacts resulting from the proposed project, as well as to analyze various mitigation options, a proposed condition HEC-RAS and Mike11 hydraulic model was created based on the existing condition channel and overbank geometry, along with models for the proposed structure dimensions. Each alternative that was assessed was documented in the EA.

Wetland Protection (Executive Order 11990;3. 3 CFR, §§2,5)

Louis Berger scientists are well versed in the full range of activities required to assess and demonstrate program compliance with E.O. 11990, including the identification and delineation of wetlands, assessment of functions and services, identification of potential direct and secondary impacts, and documentation of mitigation actions including avoidance, minimization and compensation.

Louis Berger scientists are trained in the use of the USACE 1987 Wetlands Delineation Manual, including the recent regional supplements (2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0; and, 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0), the 1989 Federal Manual for Identifying and Delineating Jurisdictional Wetlands required by the NJDEP, and the New Jersey Pinelands Commission Manual for Identifying and Delineating Pinelands Area Wetlands required by the Pinelands Commission. Our staff has completed thousands of miles of wetland delineations nationwide, and hundreds of miles throughout the costal, piedmont and highland regions of New Jersey. Louis Berger staff has prepared all aspects of applications for and obtained both jurisdictional determinations from the USACE, Philadelphia and New York Districts, and Letters of Interpretation (LOI) under the New Jersey Freshwater Wetlands Protection Act (FWPA) from the NJDEP for projects within freshwater wetlands.

Louis Berger employes delineation methods to meet regulatory and resource agency requirements and have used both the 1987 and 1989 federal manuals in New Jersey. Through years of work in New Jersey, we know that the USACE, Philadelphia District, is responsible for wetland jurisdictional determinations in tidal wetlands and wetlands contiguous to tidally flowed waterways. North of the Raritan River, the New York District of the USACE assumes jurisdiction for tidal wetlands and some adjacent freshwater wetlands, and all wetlands within the NJ Meadowlands. . The NJDEP is responsible for tidal waterways, coastal wetlands that have been mapped or delineated pursuant to the Wetland Act of 1970, and freshwater wetlands. Louis Berger works with federal and state agencies to determine a wetland boundary that will satisfy all agencies. In this manner, we have delineated boundaries using a combination of the 1989 and 1987 manuals to satisfy technical requirements when the state (which uses the 1989 manual) and the USACE (which uses the 1987 manual) have overlapping jurisdiction. Louis Berger demarcates wetland/upland interfaces using flags and stakes sequentially numbered. Flags are then located using global positioning systems (GPS) and/or traditional survey methods by licensed surveyors.

As part of project design process, Louis Berger scientists work directly with planners and engineers to develop project designs that avoid and minimize wetland and open water impacts to the extent possible. Our planners and scientists also work together to prepare NEPA and State E.O. 215 documents and permit applications that demonstrate how a proposed project avoids and minimizes impacts to wetlands, and also prepare compensatory mitigation plans to compensate for unavoidable direct impacts. For federally funded projects, each of these steps is necessary to demonstrate compliance with E.O. 11990.

Louis Berger has always been on the forefront of wetland mitigation and wetland banking in New Jersey, and is the largest engineering firm supporting wetland banking in New Jersey. Louis Berger has developed designs for three freshwater and tidal wetland banks totaling more than 800 acres of wetland restoration. Louis Berger has also supported bank establishment by developing the Banking Instrument, conducting negotiations with the Inter-agency Review Team (IRT) and/or New Jersey Wetlands Council, and preparing and obtaining regulatory permits. Louis Berger recently assisted EarthMark Mitigation Services on obtaining approved plans, permits, and a signed banking instrument for the Richard P. Kane Wetland Bank in the New Jersey Meadowlands. Through a partnership between the Meadowlands Conservation Trust and EarthMark, the first public/private mitigation bank is being constructed in the Meadowlands. Other relevant project examples include:

New York State Department of Transportation, Term Agreement for Ecological and Water Resource Studies, and Training for New York State Department of Transportation. Louis Berger has held four consecutive four-year on-call services term agreement to provide wetland and water services to New York State Department of Transportation (NYSDOT) Regions 8, 10 and 11, and other upstate regions. Services performed include the

delineation of state and federal regulated wetlands, wetland functional assessments, wetland permitting support under the New York State Freshwater Wetlands Act and Section 404 of the Clean Water Act, compliance with E.O. 11990stream assessments and restoration design, and water quality assessments modeling. Additional services include providing training to NYSDOT staff, evaluating alternative alignments to avoid, minimize and reduce wetland impacts, evaluate wetland mitigation sites, and conducting and preparing wetland mitigation monitoring reports for submission to USACE/NYSDEC. Over one hundred task orders have been completed.

Woodbridge Creek Wetland Mitigation & Restoration project Woodbridge, New Jersey. Louis Berger was selected by NOAA, in conjunction with the New Jersey Department of Environmental Protection to finalize the construction documents (plans and specifications) for the Woodbridge Creek Wetland Restoration and to prepare a construction cost estimate for construction based on these revised documents. The Woodbridge Creek Wetland Restoration was conducted to mitigate for damages resulting from the 1998 Exxon Bayway Oil Spill, as sought after by the state and federal trustees of the NY/NJ Harbor Oil Spill Natural Resource Damage Settlement Fund. Louis Berger reviewed and revised the conceptual plans previously developed for the site. Louis Berger developed a series of plans including a maintenance, protection and traffic plan, site preparation plan, grading plan and planting plan. Louis Berger also designed a confined disposal facility to contain the material to be excavated from the site in accordance with all state and federal regulations. In 2007, the Coastal America Spirit Award was presented to Louis Berger for the Woodbridge Wetland Restoration, a project which resulted in the creation of a large-scale high-quality salt marsh complex, 80 acres in total (including enhancements to the designated preservation zones).

Coastal Zone Management Act (16 U.S.C. 1451, §§307(c), (d))

Having worked on numerous projects in the fragile, but often highly developed and populated coastal zone, the Louis Berger Team understands the need for and difficulty of balancing the often competing and sometimes conflicting demands of coastal resource use, economic development, and conservation. To help achieve that balance, the Louis Berger Team has supported various clients throughout the United States, including New Jersey, on compliance with the CZMA as part of broader NEPA and planning support and as part of coastal permits under Section 404 of CWA. Through previous work completed in New Jersey, the Louis Berger Team is familiar with the state's enforceable polices contained in the Coastal Zone Management rules (N.J.A.C. 7:7E), the Coastal Permit Program rules, (N.J.A.C. 7:7), and the Freshwater Wetlands Protection Act rules (N.J.A.C. 7:7A). Relevant project examples include:

Lincoln Park Tidal Marsh Restoration Project, Hudson County, New Jersey. On behalf of NOAA and the New Jersey Department of Environmental Protection (NJDEP), Louis Berger completed the Lincoln Park Tidal Marsh Restoration Project in Hudson County, New Jersey. Louis Berger brought the project from conceptual design through the development of full construction plans, specifications, and estimates. This 40- acre tidal marsh restoration project along the damaged Hackensack River was one of 50 selected by NOAA to receive grant money from the American Recovery and Reinvestment Act (ARRA) in July of 2009. Louis Berger assisted NOAA and NJDEP in the grant application and the project received the single biggest award at $10.6 million. Louis Berger completed construction management services to oversee the contractors' completion of the work on behalf of NJDEP and is presently finalizing the last monitoring report.

NAVFAC Washington IDIQ Contract for Base Development Planning. Louis Berger provided CZMA determinations for multiple sites, including the U.S. Naval Academy, Annapolis, Maryland; Naval Air Station Patuxent River, Maryland; Marine Corps Base Quantico, Virginia; Naval Support Facility Dahlgren, Virginia, and Naval Support Facility Indian Head, Maryland.

Endangered Species Act (50 CFR Part 402)

Team members are experienced in threatened and endangered species surveys, Biological assessments, and consultations pursuant to Section 7 of the ESA. Projects range from simple reconnaissance surveys to controversial in-depth assessments, detailed mapping, habitat analysis, population trends, and the development of long-term management plans. Relevant project examples include:

NPS Statue of Liberty EA/Assessment of Effect for Life Safety Upgrades. Louis Berger completed an EA and assessment of effects to evaluate a range of alternatives to improve the public safety and accessibility of the Statue of Liberty National Monument. Louis Berger participated in a site visit and combined internal scoping/ kick-off meeting during which Louis Berger was responsible for completing an Environmental Screening Form and finalizing the project's statement of purpose and need, objectives, and impact topics list. As part of NEPA and NHPA compliance, Louis Berger was responsible for preparation of public notices and press releases for all project related activity, SHPO correspondence, a Federal Consistency Determination, and Section 7 correspondence as part of compliance with the Endangered Species Act.

FHWA NEPA Environmental Assessment for the New Jersey Turnpike Authority's Garden State Parkway Interchange 9, 10, and 11 Improvements Program. Louis Berger completed an EA, permitting and mitigation design for three major interchanges improvements in Cape May, New Jersey. Our staff conducted preliminary design to evaluate a range of alternatives to improve the public safety and traffic flow at each intersection. Louis Berger conducted field investigations, habitat mapping and consultations with NJDEP and USFWS to assess potential presence and effects of the project on both state and federal listed species. As part of NEPA and NHPA compliance, Louis Berger was responsible for preparation of public notices and press releases for all project related activity, SHPO correspondence, a Federal Consistency Determination, and Section 7 correspondence as part of compliance with the Endangered Species Act.

Wild and Scenic Rivers Act (16 U.S.C. 1271, §§7(b), (c))

The National Wild and Scenic Rivers Act (16 U.S.C. 1271 as amended) of 1968 protects rivers designated for their wild and scenic values from activities which may adversely impact those values. The Wild and Scenic Rivers Act was an outgrowth of the recommendations of the Presidential Outdoor Recreation Resources Review Commission. Selected rivers are preserved for possessing outstandingly remarkable scenic, recreational, geologic, fish and wildlife, historic, cultural, or other similar values. Rivers, or sections of rivers, so designated are preserved in their free-flowing condition and are not dammed or otherwise impeded. The designated rivers are listed on the U.S. National Wild and Scenic Rivers System web site (www.rivers.gov). Louis Berger has worked on projects involving the Wild and Scenic Rivers Act, including:

EA for Boquillas Rio Grande Crossing, Big Bend National Park, Texas. Louis Berger is currently preparing the EA for a new visitor contact station and Class B Port of Entry at the historic Boquillas Rio Grande Crossing in Big Bend. This international river crossing between the United States and Mexico was active for more than a century, supporting commercial mining activities, a unique visitor experience, and access to markets for residents of the village of Boquillas, Mexico. The crossing was closed in early 2002, and the cultural connection between nations at this location has diminished. The project will construct a new visitor contact station to provide park information and visitor amenities, and a Class B (remotely monitored) Port of Entry for Customs and Border Protection. The Rio Grande adjacent to the project area is designated as "scenic" under the Wild and Scenic Rivers Act. In addition, there are several species listed under the ESA in and near the river corridor, and portions of the project area are within the 100-year floodplain as mapped by the Federal Emergency Management Agency. Thus, the EA includes a biological assessment, Section 7 finding under the Wild and Scenic Rivers Act, and SOFs for wetlands and floodplains. Louis Berger is on schedule to complete the compliance effort on an aggressive schedule—six months from award to FONSI—using interim deliverables and frequent and open communication with the Intermountain Region and park staff to ensure document quality.

Mongaup Interpretive Center, Architectural Pre-Design and Schematic Design Services, Upper Delaware Scenic and Recreational River, New York. Louis Berger provided architectural pre-design and schematic design services for a 5000 square foot Visitor's facility at the Mongaup Site, located along the Upper Delaware Scenic and Recreational River, designated a National Wild and Scenic River within the boundaries of Delaware Water Gap National Recreation Area. The Mongaup site is approximately halfway between Sparrowbush and Pond Eddy along Route 97 at the intersection of Upper Mongaup Road (Route 31) at the confluence of the Mongaup River. Louis Berger was also scoped to perform the EA, but the NPS is currently negotiating the site selection and no plans have been made to proceed. Louis Berger's project responsibilities included the full design of schematic

alternatives to be analyzed in the EA, as well as the coordination of site infrastructure, building systems, and sustainable initiatives. The structure was to serve as the Upper Delaware Scenic and Recreational River's primary visitor contact facility and operational base from which to offer year-round educational programs and exhibits on the park's historical and environmental resources.

Clean Air Act (40 CFR Parts 6, 51, 93)

Team members have performed analyses related to compliance with the CAA including permitting, impact analyses, conformity, and other compliance issues. Relevant project examples include:

Programmatic EIS, U.S. Department of Energy. Louis Berger prepared affected environment (baseline) and assessed the impacts of waste management incinerators on air quality at 13 DoE installations.

Air Quality Applicability Analyses, Multiple Sites. Since 2006 Louis Berger prepared more than 15 air quality applicability analyses in support of EAs for building renovations and additions, including evaluation of construction and operation impacts and vehicle emissions. Louis Berger also prepared an air quality applicability analysis in support of an EA for construction of an Explosives Test Facility.

Environmental Justice (Executive Order 12898)

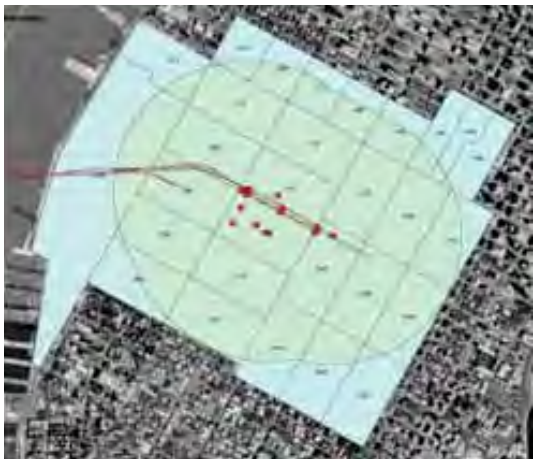
The most recent guidance on environmental justice is designed to help agencies establish system-wide protocols for establishing performance measures to evaluate the effectiveness of tools and techniques designed to identify and to engage minority and low-income populations. On August 4, 2011, 17 federal agencies, including the U.S. Department of Transportation, signed the ***Memorandum of Understanding (MOU) on Environmental Justice and EO 12898***. The MOU requires participating agencies to prepare an Annual Implementation Progress Report which highlights efforts undertaken by each respective agency over the past year to address environmental justice issues. The report should identify performance measures established by participating agencies to evaluate the effectiveness of environmental justice strategies. It should also respond to questions, concerns, or recommendations provided by the general public. The MOU establishes "Areas of Focus" that each agency is expected to address in the report, as appropriate for its mission, including the implementation of NEPA and Title VI of the Civil Rights Act of 1964, as amended, as well as impacts from climate change and commercial transportation and supporting infrastructure (i.e., "goods movement"). Relevant project examples include:

Title VI – Environmental Justice/Limited-English Proficiency and ADA Policy/Procedure Development, New Jersey. Louis Berger reviewed NJDOT's Civil Rights & Affirmative Action Program, as compared by MPO, state and federal Title VI reporting and monitoring procedures. Targeted questionnaires were designed to interview staff representatives from various NJDOT departments. Interviews were conducted to: assess the level of understanding and support for Title VI, including the ADA and executive orders related to Environmental Justice and Limited-English Proficiency; develop DOT familiarity with Title VI goals and objectives and existing Title VI reporting and monitoring procedures already in place; review specific objectives of each program area and consider opportunities and challenges to advance goals of nondiscrimination; synthesis of noteworthy "Effective Practices" examples, including community impact assessment and context sensitive solutions, initiated by NJDOT and/or other transportation agencies where Title VI training materials that have been disseminated; determine the interests and capabilities and experience of each liaison in carrying out Title VI responsibilities. Additional tasks included the participation in a 2 day debriefing of interviews and initial data gathering for development and refinement of initial presentations to the advisors/steering committee, attendance at 10 meetings, including kickoff, 5 advisors meetings, and 5 task force meetings.

Environmental Justice Evaluation and Strategy, New Jersey. In recognition of its obligation to certify Title VI compliance, the South Jersey Transportation Planning Organization (SJTPO) selected Louis Berger to prepare an Environmental Justice Evaluation and Strategy Study. The technical evaluation began with an intensive use of GIS to identify the spatial location and socioeconomic characteristics of low-income and minority populations. Communities of concern were identified using U.S. Census data and several administrative data sources that serve as proxy measures of poverty (e.g., free and reduced price lunches, TANF recipients, "zero-car" households).

New Jersey Transit, Socioeconomic Technical Studies, Environmental Justice and Secondary and Cumulative Impact Analysis, Access to the Region's Core (ARC). The ARC improvements are also expected to create significant economic development and real estate growth in both New York City and throughout the New Jersey communities in proximity to the affected rail lines. The ARC project holds the potential to shape the region's

urban form, inducing secondary effects such as changes in land use near transit stations along several New Jersey rail lines and create more interest in non-auto commuting. The socioeconomic technical studies assessed impacts to land use and parklands, business and residential displacements, environmental justice, and community facilities and services located within the communities along the existing Northeast Corridor rail line. Additionally, the study included an assessment of the existing urban form surrounding transit station locations in Northern and Central New Jersey and the secondary effects of the project investment and inducement of ridership. For one portion of the Environmental Justice evaluation, Louis Berger included an assessment of the race and income characteristics of populations potentially affected by the construction and the siting of emergency ventilation systems. Staff worked with the study team engineers and planners to develop alternatives to avoid and minimize impacts to minority communities near the fan plant locations.



FHWA, Environmental Justice Technical Assistance Training Materials. Louis Berger prepared a social analysis, including development of a workshop, brochure, Web site, and case study booklet for FHWA to address E.O. 12898, Federal Action to Address Environmental Justice in Minority Populations and Low-Income Populations.

Noise Abatement and Control (24 CFR Part 51, Subpart B)

Louis Berger staff has experience in the full array of issues and procedures involved with all phases of noise analysis including: ambient, operational, and construction noise measurements; noise impact assessment and prediction; noise policy and criteria development; and acoustical mitigation analysis and design. Louis Berger has prepared numerous stand-alone noise studies and noise analyses as part of environmental impact statements (EISs), environmental assessments (EAs) and other documentation performed in accordance with the National Environmental Policy Act (NEPA) and various state environmental requirements. Representative projects that demonstrate Louis Berger's expertise and experience in the various elements of c noise analysis are presented below.

New Jersey Department of Transportation. Louis Berger provided statewide noise monitoring services to NJDOT on a task order basis. As part of this three-year contract, Louis Berger conducted both short-term and long-term noise measurements along U.S. Route 1 at Penns Neck in Princeton, Route 46 in Lodi and Route 70 over the Manasquan River. As part of this effort, Louis Berger conducted noise measurements at 22 locations, including 7 long-term (24 or 48 hours) measurement locations. A total of more than 250 hours of noise level data were collected and results were documented into three noise measurement reports.

NJ Transit. Louis Berger conducted separate noise measurement and mitigation studies at the Raritan and Gladstone rail yards and the Oradell bus garage. Both 24-hour and 30-minute noise measurements were performed and the feasibility and effectiveness of various mitigation measures were assessed. Louis Berger also did a noise study for an EA for improvements to Broad Street Station in Newark.

Toxic Chemicals and Radioactive Materials (24CFR Part 58, §5(i)2)

The Louis Berger Team has extensive experience identifying and quantifying radioactive materials in environmental media. Typical field investigations have included gamma radiation exposure rate mapping, surface alpha/beta particle surveys, and sample collection for radionuclide isotopic analysis. Once exposure pathways are quantified, our staff of health and nuclear physicists and other radiation health risk assessors can perform comprehensive risk assessments due to ionizing radiation exposure. Mixed wastes (i.e., wastes consisting of radioactive components commingled with hazardous chemicals) have unique health and safety, as well as permitting, considerations.

The Team is particularly qualified to look at mixed-waste issues since CoPhysics has considerable experience in characterizing mixed-waste constituents. The Team has completed numerous projects involving low-level and naturally-occurring radioactive waste and has developed specialized experience in this area on high profile projects for EPA Region 2. We are currently working with KCD and the New York District at the Sylvania Corning FUSRAP site, undertaking a time-constrained RI/FS. Other projects conducted by A/MP include RI/FS studies at the U.S. Radium and Li Tungsten Superfund Sites, as well as groundwater and soil investigations and remedial design at the Maywood Superfund Site. Similarly, Louis Berger has executed three projects for NJDEP that

required radiological screening and characterization, and also is doing a radiological screening project currently for the NYC Department of Design and Construction. Louis Berger has also previously provided radiological and health physics investigation and screening services at McGuire AFB, Lakehurst NAS, the Wolff-Alport site in NY City, and at Gagliardi demolition.

The Louis Berger Team includes nationally-recognized experts in geochemistry and contaminant fate and transport, and thus is highly capable of evaluating all aspects of fate and transport (advection/dispersion, sorption/diffusion, biodegradation, volatilization, etc.), as well as evaluating contaminants in any medium, including sediments and soil vapor. Our oversight work on the Lower Passaic River and the Hudson River has repeatedly been recognized by USACE and EPA Region 2 as the critical lynchpins needed to keep these large, highly controversial and complex projects moving forward. On the Sylvania Corning project, our modelers played a key role in the development of the model framework and statistical assessment for parameterization of hydrogeologic data . On a similarly large, high-profile project in Tel Aviv Israel, Louis Berger has utilized the TMVOC model to evaluate the impact of VOC vapors' potential for entering and adversely impacting existing dwellings and commercial buildings in the city. We have similarly modeled complex soil gas fate and transport for many vapor intrusion studies in NJ (NJDEP and the NJ School Development Authority) and NY (NY City School Construction Authority). We have worked with both two- and three-dimensional models, including: Konikow and Bredehoeft's Method of Characteristics (MOC) model, which simulates two-dimensional fate and transport; and Waterloo Hydrogeologic Software's Flowpath model, to name but a few. For the Cornell-Dubilier OU-3 Groundwater RI, the Louis Berger Team has assessed the movement of volatile contaminants in fractured bedrock using the cutting-edge FRACTRAN model., Louis Berger has completed dozens of fate and transport analyses over the past five years alone. Just a few examples of these empirical or numerical analysis include: Gowanus Canal (Upland) Site Investigation; Matteo Iron & Metal Site, West Deptford, New Jersey (including sediments); MSLA 1-D Landfill Site, Kearny, New Jersey(including sediments); Liberty State Park, Jersey City, New Jersey (including sediments); Cleveland Industrial Center, Washington Twp/Morris Co., New Jersey; Paperboard Specialties Industrial Site, Paterson, New Jersey; Schaffernoth's Nursery, Ringoes, New Jersey; Supreme Petroleum Site, Chesilhurst, New Jersey; Trenton Fibre Drum Site, Lawrence Twp., New Jersey; Gagliardi Demolition Site, Vineland., New Jersey; the multiple Hudson County Chromate Orphan Sites, Hudson Co., New Jersey(including sediments).

FEMA Statutory Requirements At 44 CFR Part 10

Louis Berger has been active in disaster recovery around the world, we became increasingly involved and grew our emergency management response and recovery program with the addition of our United States Postal ID/IQ on call contract follow the anthrax clean up in Virginia, Washington DC and New York City. Since that time we have been providing disaster recovery assistance to states, local governments and schools, as well as private-non- profits, such as historic foundations, housing authorities and parks. Under the FEMA disaster programs such as Public Assistance and their Mitigation program we have work with our clients and FEMA to ensure that all statutory requirements (special considerations) are met and that all of their projects especially their FEMA projects have complete compliance with all federal, state and local regulations. FEMA has a very detailed process that is followed in the development of every project and debris operation under all of their programs. This includes environmental/historic preservation compliance with Federal laws, regulations, and EOs, such as those that address the environment, floodplains, wetlands, historic preservation, endangered species, and environmental justice.

Timely identification and resolution of special considerations issues prior to initiation of disaster-related work is critical to the effective delivery of the PA Program. If FEMA, the State, and the applicant fail to identify and address these issues expeditiously, there can be loss of funding, delays of funding, legal action and loss of opportunity to access other grant programs. Louis Berger has worked hard for our clients to protect them from these possible problems. Louis Berger has worked with clients on disasters in New York, New Jersey, Virginia, Washington, DC, Louisiana, Alabama, Florida, Iowa, Tennessee, and Texas.

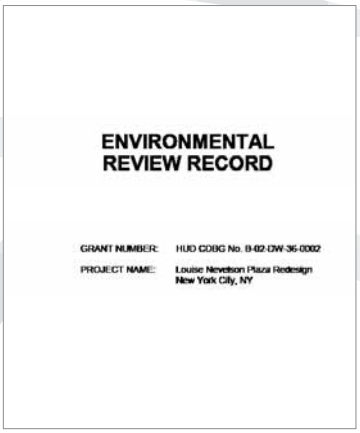
Applicable New Jersey Laws

There are several New Jersey regulations that would require compliance reviews. These include:

- Coastal Area Facilities Review Act (N.J.S.A. 13:19)
- Wetlands Act of 1970 (N.J.S.A. 13:9A)
- Waterfront Development Act (N.J.S.A. 12:5-3)
- Freshwater Wetlands Protection Act (N.J.S.A. 13:9B)
- Flood Hazard Area Control Act (N.J.A.C. 7:13 N.J.S.A. 13:9A

Louis Berger scientists, hydrologists and engineers have extensive experience with these regulatory programs. Staff have prepared numerous applications and obtained both general and individual permits for a variety of project types.

In response to Hurricane Sandy, NJDEP adopted emergency amendments, repeals and updates to the Coastal Permit Program rules, N.J.A.C. 7:7, and Coastal Zone Management rules, N.J.A.C. 7:7E on April 16, 2013. On January 24, 2013, NJDEP adopted emergency amendments to the flood hazard area rules. The emergency regulations generally allow for the repair, replacement and reconstruction of previously existing structures and facilities within the same footprint without the need of Division authorization. Each project site would require individual inspection to determine if the project fits within the NJDEP criteria outlined in the emergency amendments.


ENVIRONMENTAL
REVIEW RECORD

GRANT NUMBER: HUD CDBG No. B-02-DW-36-0002

PROJECT NAME: Louise Nevelson Plaza Redesign
New York City, NY

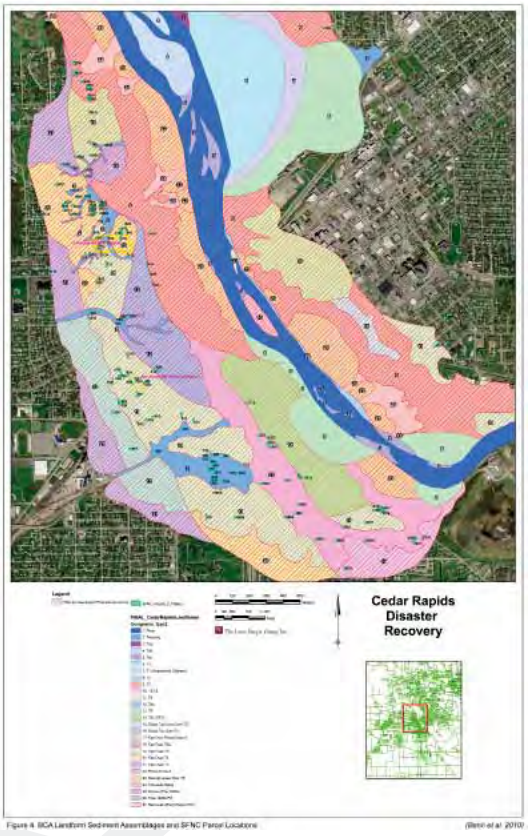
EXPERIENCE WORKING WITH FEDERAL STATE OR LOCAL GOVERNMENTS IN THE AREA OF ENVIRONMENTAL REVIEWS FOR HUD PROJECTS AND FEMA COMPLIANCE REVIEWS; EXPERIENCE COMPLETING HUD ENVIRONMENTAL REVIEW RECORDS

Louis Berger has significant experience providing local and state governments in conducting environmental reviews for HUD and FEMA disaster recovery projects in Florida, Iowa, New Jersey, New York, Louisiana, Tennessee, Texas, Washington, DC. Louis Berger has recently expanded our emergency management response and recovery program with the addition of our United States Postal ID/IQ on call contract providing disaster recovery assistance to states, local governments and schools, as well as private- non- profits, such as historic foundations, housing authorities and parks under the FEMA disaster programs such as Public Assistance and their Mitigation program. Louis Berger has extensive experience with CDBG-funded disaster recovery as well. Louis Berger is particularly familiar with the requirements of HUD, as it has completed documentation for this agency on multiple projects that we completed for LMDC, HPD and ESDC, all of which were HUD-funded projects that required compliance with SEQRA, but also with HUD's NEPA requirements.

For decades, team members have worked with clients to gain HUD approval of action as well as master plans and has worked with HUD in every major disaster in the United States over the past decade. An example of Louis Berger-prepared ERR for the Louise Nevelson Plaza Redesign, for the Lower Manhattan Development Corporation is attached at the end of this Tab.

EXPERIENCE PRODUCING PROFESSIONAL QUALITY ENVIRONMENTAL REPORTS, INCLUDING GIS-BASED MAPS

Louis Berger has provided professional quality, technically and legally defensible environmental reports and resulting decision documents in accordance with the requirements of NEPA, regulations of the Council on Environmental Quality (40 CFR 1500–1508); DO-12; and the National Historic Preservation Act (NHPA) of 1966 (as amended) and its implementing regulations for projects throughout the United States. Through years of experience Louis Berger has completed all levels of NEPA compliance, from documenting categorical exclusions to preparing complex programmatic EISs. Most environmental documents prepared by Louis Berger are enhanced by the use of GIS-based maps. Louis Berger used Landform Modeling data prepared by Bear Creek Archaeology to prepare the maps shown on the following page for archaeological reviews of CDBG-funded buyouts following the devasting floods of 2008 in Cedar Rapids, Iowa.



EXPERIENCE PERFORMING ENVIRONMENTAL ASSESSMENTS OR CULTURAL RESOURCES SURVEYS USING STATE OF THE ART EQUIPMENT; EXPERIENCE USING WEB-BASED TOOLS TO CONDUCT AND DOCUMENT HUD AND FEMA REVIEWS; INTEGRATING WEB-BASED DATA ENTRY WITH GIS MAPPING AND FIELD DATA COLLECTION

Louis Berger uses Global Positioning System (GPS) equipment to record the precise location of survey areas, archaeological sites, architectural properties, cultural features, subsurface test locations, and other important survey information. Louis Berger uses Trimble GeoXT (sub-meter accuracy) and Trimble GeoXH (sub-foot accuracy) handheld GPS units equipped with a GeoBeacon receivers and TerraSync Professional software which are capable of producing results with sub-foot accuracy. All supervisory field personnel are trained to use this equipment and Louis Berger has been using sub-meter GPS as part of routine survey work since 1999 and has recently invested in sub-foot GPS units. Location data collected by GPS is downloaded using GPS Pathfinder Office software, which configures it for use with ArcView, AutoCAD, or MicroStation software as appropriate or requested by client managers. Louis Berger is a corporate partner with ESRI, and we use ESRI's ArcView software for Geographic Information System (GIS) development and analysis and professional quality project maps for environmental and historic preservation projects. We also use PenMap, a field-based GIS designed for archaeological applications. PenMap is partnered with a Panasonic "Toughbook" computer for real-time on-site GIS mapping and analysis during field excavations. Louis Berger is currently beta-testing a new artifact database in Microsoft Access for use in our National Archaeological Laboratory in Kansas City, Missouri and developing apps for archaeological and architectural fieldwork. The database will streamline artifact analysis processing and ultimately increase productivity. This new database utilizes more user-friendly software and allows researchers to more effectively analyze data.

Daily reports will be generated by all EAF Contractors' field inspectors using mobile devices which in turn are linked with SharePoint. Louis Berger has developed this functionality in order to properly capture all activity at site. Reporting includes: Weather; Work Activity; Instructions to Contractor;; Testing Activity; Quantity Tracking; Equipment Utilization; Field Force; Issues' Visitors; Photos; and relevant attachments. After the report is reviewed and approved it is locked and archived. These documents are subsequently available to support claims negotiations.

EXPERTISE AND RESOURCES FOR ENTERING DATA

The Louis Berger Team has the expertise and resources to enter data and upload the full ERR into the ERMS. If selected as contractor, the necessary Louis Berger personnel will obtain necessary certifications, local licenses, and training to conduct required services in the scope of work.

ENVIRONMENTAL REVIEW RECORD

GRANT NUMBER: HUD CDBG No. B-02-DW-36-0002

PROJECT NAME: Louise Nevelson Plaza Redesign
New York City, NY

ENVIRONMENTAL REVIEW RECORD CHECKLIST

COMPONENTS	YES	NO	N/A	COMMENTS
1. Brief Project Description	X			
2. Explanation of Exemption or Categorical Exclusion Determinations (as relevant)	X			
3. Statutory Checklist*: Environmental Requirements Other Than NEPA. (For all Cat. Excl. Projects, including Cat. Excl. Projects determined to be exempt pursuant to 58.34(a)12, and projects requiring EA or EIS)/Other Requirements Checklist**	X			
4. Environmental Assessment Document (Depending on level of clearance req.)			X	
5. Environmental Assessment Checklist (Optional)			X	
6. Notice of Finding of No Significant Impact as posted/published (as relevant)			X	
7. Notice of Intent to Request a Release of Funds as posted/published (as relevant)			X	
8. Combined FONSI/RROF as posted/published (as relevant).			X	
9. a. Distribution List of FONSI (as relevant) b. Distribution List of RROF (as relevant) c. Distribution List of FONSI/RROF (as relevant)			X	
10. Any comments received and recipient responses.			X	
11. Certification of Environmental Review, Request for Release of Funds submitted (as relevant)			X	
12. Notice of Removal of Grant Condition/Release of Funds (as relevant)			X	
13. Post-Review Revisions and Changes, Written Decisions, Amendments, and Supplements (as relevant)			X	
14. Continuing Project (58.47) Determination (as relevant)			X	
15. EIS documentation required by 58.55-60 (as relevant)			X	

* Section 58: Related Federal Laws and Authorities

** Section 58.6: Other Requirements NOTE: Section 58.6 documentation is REQUIRED for ALL projects

PART 1

PROJECT ABSTRACT

Name of Grantee: Lower Manhattan Development Corporation
Application/Grant Number: HUD CDBG No. B-02-DW-36-0002
Project Sponsor: Lower Manhattan Development Corporation
x Original
Revisions
Amendments

Name and Title of Certifying Officer:

Stefan Pryor, President
Lower Manhattan Development Corporation

Project Name: Louise Nevelson Plaza Redesign

Locations of Physical Development(s): Area bounded by Maiden Lane, William Street, Gold Street, and Liberty Street in the lower Manhattan area of New York City, New York

Lead Agency: Lower Manhattan Development Corporation

Address: One Liberty Plaza, 20th Floor, New York, NY 10006

Project Representative: Irene Chang, Esq. Telephone: (212) 587-8648
Address: One Liberty Plaza, 20th Floor, New York, NY 10006
Project Information: Daniella Eidelberg Telephone: (212) 587-8718
Address: One Liberty Plaza, 20th Floor, New York, NY 10006

Project Summary Description: *$1.8 million CDBG Funds* *$350,000 Other Funds (Projected)* *(Projected)*

CDBG funding is requested for the Louise Nevelson Plaza Redesign, which includes reconstruction and enhancement of the public open space along Liberty Street at Maiden Lane in Lower Manhattan with new lighting, increased seating, and other improvements and amenities.

PROJECT DATA

PURPOSE OF THE PROJECT:

The purpose of this project is to improve one of the largest publicly-owned open spaces in Lower Manhattan's Financial District and to enrich the cultural resources of Lower Manhattan. This project would provide public facilities that add to the quality-of-life for all communities in Lower Manhattan and draw residents and visitors to the area, contributing toward the restoration, stabilization and enhancement of Lower Manhattan which was severely impacted by the September 11, 2001 attacks on the World Trade Center. The project would enhance the open space and public amenities in an area with a large and dense population consisting of office workers, visitors and residents.

STATUS OF THE PROJECT:

The Lower Manhattan Development Corporation has completed design of the proposed improvements. The project has broad community support, including the support of the local Community Board 1. The project's design has also received an award for exceptional design from New York City's Art Commission. The Louise Nevelson Plaza and the surrounding curb areas are owned by the City of New York under the jurisdiction of its Department of Transportation, which has approved the project. Work will be done by the New York City Department of Design and Construction (NYCDDC) in conjunction with their Liberty Street/Maiden Lane/Pearl Street Reconstruction project. It is anticipated that subsurface preparation for the Plaza will begin in summer 2006 and construction of the Plaza will start the following spring, with completion scheduled for fall 2007.

PROJECT AND AREA DESCRIPTION:

The project is located in Lower Manhattan at the Louise Nevelson Plaza, which is bounded by Maiden Lane, William Street, Gold Street and Liberty Street (near the Federal Reserve). See Figures 1 and 2. The project will enhance the Louise Nevelson Plaza by upgrading illumination, accessibility, and the aesthetics of the existing space. Activities proposed include: highlight the Louise Nevelson sculptures so they are the Plaza's centerpiece, as intended; additional and better-suited trees to compliment the sculptures; increase seating to make it more accessible to pedestrians; increase public safety with the installation of lighting to activate the plaza at night to make it more welcoming, and a new Federal Reserve Guard-booth that better fits the plaza design. The Lower Manhattan Development Corporation's (LMDC) scope covers the enhancements to the Plaza. NYCDDC's scope of work on the Plaza entails restoration of sculptures and the adjustment of the Liberty Street curbline of the Plaza.

EXISTING CONDITIONS AND TRENDS:

The Lower Manhattan streetscape is composed of a pattern of old winding, narrow streets from the Dutch settlement of Nieuw Amsterdam in the 17th century. The streetscape and its infrastructure (lighting, signage, etc.) have deteriorated over time creating poor conditions for sidewalks, inconsistent lighting, and illegal signs. The Louise Nevelson Plaza has also deteriorated over time, with curb cuts and inconsistent asphalt paving, missing street lights, cracked concrete depressions along the outer edge of the plaza, indiscriminate piles of pavers, temporary wooden structures around trees and safety barricades. As mentioned above, the Plaza enhancements will be done in conjunction with NYCDDC's Liberty Street Reconstruction. This project proposes to reconstruct roadway, curbs, and sidewalks, including street lighting as well as utility work on Liberty Street from Nassau to Gold Streets, Maiden Lane from William to Water Streets, and Pearl Street from Fulton to John Streets.

Lower Manhattan has the highest population growth rate in the City with increases of 100%, 59%, and 35%, over the last three decades respectively[1]. According to the 2000 Census, the population is 34,420 residents, with over 6,791 families. In addition to its growing residential population, the area hosts millions of tourists annually, making improved public spaces essential to the sustainability of the area.

PROJECT AND AREA MAPS AND PLANS:

See Figures 1 and 2.

[1] From the New York City Department of City Planning (December 2003)

STATUTORY WORKSHEET

[Revised April 2000]

Use this worksheet only for projects which are Categorically Excluded per 24 CFR Section 58.35(a).

24 CFR §58.5 STATUTES, EXECUTIVE ORDERS & REGULATIONS

PROJECT NAME and DESCRIPTION - Include all contemplated actions which logically are either geographically or functionally part of the project:

Louise Nevelson Plaza Redesign: The project will enhance the Louise Nevelson Plaza by upgrading illumination, accessibility, and the aesthetics of the existing space. Activities proposed include: highlight the Louise Nevelson sculptures so they are the Plaza's centerpiece, as intended; additional and better-suited trees to compliment the sculptures; increase seating to make it more accessible to pedestrians; increase public safety with the installation of lighting to activate the plaza at night to make it more welcoming, and a new Federal Reserve Guard-booth that better fits the plaza design (see Attachment A).

This project is determined to be categorically excluded according to: 24 CFR § 58.35(a)(1).

Pursuant to 24 CFR § 58.35(a)(1), the repair, improvement, reconstruction or rehabilitation of public facilities or improvements is a categorically excluded activity under NEPA when the (1) the facilities and improvements are in place and will not be changed in size or capacity by more than 20 percent and (2) the activity does not involve a change in land use.

Louise Nevelson Plaza is located at the area bounded by Maiden Lane, William Street, Gold Street and Liberty Street (near the Federal Reserve). It is an existing public plaza in Lower Manhattan owned by the New York City Department of Transportation. The funded activity would entail upgrading illumination, accessibility, and the aesthetics of the existing space. The plaza would remain in place for use as public open space and the project would not change the size or capacity of the plaza by more than 20%. Therefore, the project is categorically excluded from NEPA review.

DIRECTIONS - Write "A" in the Status Column when the project, by its nature, does not affect the resources under consideration; OR write "B" if the project triggers formal compliance consultation procedures with the oversight agency, or requires mitigation (see Statutory Worksheet Instructions). Compliance documentation must contain verifiable source documents and relevant base data.

Compliance Factors:

Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5	Status A/B	Compliance Documentation
Historic Preservation [36 CFR Part 800]	A	April 13, 2005. Ruth Pierpont, Director (See Attachment B)
Floodplain Management [24 CFR 55, Executive Order 11988]	A	
Wetland Protection [Executive Order 11990]	A	
Coastal Zone Management Act [Sections 307(c), (d)]	A	
Sole Source Aquifers [40 CFR 149]	A	
Endangered Species Act [50 CFR 402]	A	January 24, 2005 and February 10, 2005. (See Attachment C)

Wild and Scenic Rivers Act [Sections 7(b), and (c)]	A	
Clean Air Act – [Sections 176(c), (d), and 40 CFR 6, 51, 93]	A	
Farmland Protection Policy Act [7 CFR 658]	A	
Environmental Justice [Executive Order 12898]	A	
HUD ENVIRONMENTAL STANDARDS Noise Abatement and Control [24 CFR 51B]	A	
Explosive and Flammable Operations [24 CFR 51C]	A	
Site Contamination* [24 CFR part 58.5(i)(2)	A	
Airport Clear Zones and Accident Potential Zones [24 CFR 51D]	A	

DETERMINATION:

(X) This project converts to Exempt, per Section 58.34(a)(12), because it does not require any mitigation for compliance with any listed statutes or authorities, nor requires any formal permit or license (Status "A" has been determined in the status column for all authorities); Funds may be drawn down for this (now) EXEMPT project; OR

( ) This project cannot convert to Exempt because one or more statutes/authorities require consultation or mitigation. Complete consultation/mitigation requirements, publish NOI/RROF and obtain Authority to Use Grant Funds (HUD 7015.16) per Section 58.70 and 58.71 before drawing down funds; OR

( ) The unusual circumstances of this project may result in a significant environmental impact. This project requires preparation of an Environmental Assessment (EA). Prepare the EA according to 24 CFR Part 58 Subpart E.

PREPARER SIGNATURE: _____ DATE: _____

PREPARER NAME: Irene Chang, General Counsel

RESPONSIBLE ENTITY AGENCY OFFICIAL / SIGNATURE: _____

NAME, TITLE: Stefan Pryor, President DATE: _____

Statutory Checklist

COMPLIANCE THRESHOLDS

Historic Properties (includes archeology): The project involves a National Register (NR) or eligible (for the NR) property and/or there are NR properties or eligible properties in the Area of Potential Effect. This determination is based on a review of the NR, field observation, information check with the SHPO, and check with other individuals or groups having the requisite expertise. Initiate and complete procedures and 36 CFR 800 et. seq.

Floodplain Management: The project is within or will impact on the 100 year floodplain identified by the FEMA Flood Hazard Boundary or Flood Insurance Rate Map. If no such maps have been published, the same finding is necessary by the grantee=s Engineer or local Flood Control Agency. If the Project involves a critical action (e.g. a fire station, a hospital, etc), the 500 year flood plain applies. Initiate and complete reviews required by the AHUD Procedures for the Implementation of Executive Order 11988", as set forth in 24 CFR Part 55. (Project may be approved if there is no practicable alternative outside the floodplain.)

Wetlands Protection: The project is within, or will affect a wetland. This finding is based on review of Federal National Wetlands Inventory Maps unless more current information is available. Initiate and complete the Water Resources Council 8-step procedure. (Project may be approved if there is no practicable alternative outside the wetland area).

Coastal Zone Management (CZM): The project is within the area covered by a Federally-approved CZM Program. A consistency determination/permit from the State CZM agency or other relevant jurisdictional authority is required to document consistency.

Sole Source Aquifers and Safe Drinking Water: The project will occur in an area designated by EPA as a sole source aquifer. Contact US EPA Regional Office to confirm whether project meets the threshold for a formal EPA review. If it does, then a circumstance requiring compliance exists. Compliance is achieved by obtaining EPA's formal review and approval of the project.

Farmland Protection Policy Act of 1981: The project involves the conversion of farmland to non-agricultural use. Recipients can obtain assistance from the USDA Soil Conservation Service, in determining whether a proposed location or site meets the Act's definition of farmland. If the site meets the Act's definition, then the recipient must complete the review process as set forth in 7 CFR Part 658, "Farmland Protection Policy: Final Rule."

Endangered Species: The project will affect an endangered species of plants or animals, or a critical habitat. This finding is based on a review of the "Federally-Listed Endangered and Threatened Species" for the county in which the project is situated. Initiate and complete consultation with the U.S. Fish and Wildlife Service (FWS).

Wild and Scenic Rivers: The project will have an effect on a river which is a component of the National Wild and Scenic Rivers System or is under consideration for inclusion in the System. This finding is based on information from and consultation with the Department of the Interior (DOI). Consult DOI Park Service for resolution assistance.

Air Quality: The project is within a non-attainment area for which EPA has approved the State Implementation Plan (SIP), and there are SIP controls for such a project. Consider compliance issues in the project decision. If issues are transportation-related, priority must be given to implementing those portions of the SIP to achieve and maintain national primary air quality standards. The Department of Environmental Protection responsible for SIP implementation should be consulted. Permits should be obtained as relevant.

Noise Abatement and Control (24 CFR Part 51B): The project involves noise sensitive uses [24 CFR Part 51.101(a)(3)], and the ambient noise level at the Project site is above 65 dB. This finding is based on the HUD Noise Assessment Guidelines (NAG) or other acoustical data. Require appropriate mitigation measures or justify deviation from the HUD standards.

Hazardous Operations Explosive or Flammable in Nature (24 CFR Part 51C): The project is in the vicinity of hazardous operation involving explosive or flammable fuels or chemicals which exceed the standards and application of HUD Guidebook, "Siting of HUD-Assisted Projects Near Hazardous Facilities@. Require appropriate mitigation measures as per the above-cited regulations. NOTE: 24 CFR Part 51C does not apply to projects involving the renovation only of existing commercial, industrial, institutional, or open space–recreational facilities.

Statutory Checklist

COMPLIANCE THRESHOLDS

Runway Clear Zones at Designated Commercial Service Airports and Clear Zones and Accident Potential Zones at Military Airfields (24 CFR Part 51D): The project is located in such zones and consists of activities as cited in 24 CFR Part 51D, Section 51.302. Comply with appropriate procedures and policies set forth in the above-cited regulations.

Site Contamination* (24 CFR part 58.5(i)(2)): Based upon an evaluation of previous uses of the project site/structures involved and area in proximity** to the site, a site inspection, and other current techniques by qualified professionals determined necessary by the RE, site contamination issues have been identified. Particular attention should be given to any proposed site on or in the general proximity to such areas as dumps, landfills, industrial sites or other locations that are creating problems, or are suspected of creating problems related to hazardous materials, contamination, toxic chemicals and gases, and radioactive substances. Since it is HUD policy that properties being proposed for use in HUD programs be free of contamination problems that could affect the health and safety of occupants, or conflict with the intended utilization of a project property, the RE must either require appropriate mitigation measures to assure a safe site, or require evidence from the project sponsor that appropriate mitigation measures have been implemented by qualified professionals, consistent with relevant Federal, State, and local laws and regulations, ensuring that the occupants of proposed sites will not be adversely affected by the type of hazards listed above.

Environmental Justice (Executive Order 12898): At minimum, a circumstance requiring compliance with the Executive Order should be considered to exist if: the project or activities are located in a predominantly minority or low income neighborhood; or if the project site or neighborhood suffers disproportionately from high adverse environmental impacts on low income and/or minority populations relative to the community at large. Furthermore a circumstance requiring compliance with the Executive Order may exist, and documented determinations should be made, if a proposal: includes new housing construction, or acquisition of housing for low income or minority residents; and is proposed in a neighborhood that is currently (or planned to be) primarily non-residential. In addition, projects/activities that are close enough to predominantly low income or minority neighborhoods to a potentially adverse environmental effect on those groups, or that will employ or serve a clientele of predominantly low income or minority persons on the project site, should be evaluated on a case-by-case basis. Disproportionate adverse environmental impacts should be avoided or mitigated to the extent practicable. Consideration of steps taken to identify, and as appropriate, to avoid or mitigate such impacts should be documented in the ERR.***

* Excerpted from point III, page 56120, in the Supplementary Information section of amendment to 24 CFR Part 58, as published in the Federal Register, 9/29/03 (Volume 68, Number 188): "The policy set forth in Sec. 58.5(i)(2) requires due diligence in accordance with the language in that section, but is not intended to suggest any liability for damages caused by unknown or undiscovered hazards where an appropriate review has been performed. In addition, the policy that sites be free from hazardous materials, etc., does not require a complete absence of such materials, but only that the property be free of hazards where the hazard could affect the health and safety of occupants or conflict with the intended use of the property. The policy also does not prescribe any specific form of remediation, which may vary depending upon the nature of the hazard."

** HUD has left the definition of the term "proximity" as used in Sec. 58.5(i)(2), up to the Responsible Entity. As concerns certain Programs under which HUD is to perform environmental reviews (i.e. the HOPWA, SHOP, and Youthbuild Programs), proximity is discussed as the area within 3,000 feet of the project site.

*** The Executive Order calls on Federal agencies, and in the case of HUD, units of general purpose government acting under an assumption of HUD's environmental review responsibility, to identify and address, to the extent practicable, disproportionately high adverse human health or environmental effects of their programs, policies and activities on minority and low income populations.

Revised 10/03

Docname: stat.checklist.10.03

Statutory Checklist

List of Applicable Statues and Regulations

24 CFR Part 58.5 Federal Laws and Authorities.

(a) *Historic properties*.

(1) The National Historic Preservation Act of 1966 (16 U.S.C. 470f *et seq.*): as amended: particularly section 106 (16 U.S.C. 470f): except as provided in § 58.17 of this part for section 17 projects.

(2) Executive Order 11593. Protection and Enhancement of the Cultural Environment, May 13, 1971 (36 FR 8921 *et seq.*): particularly section 2(c).

(3) The Reservoir Salvage Act of 1960 (16 U.S.C. 469 *et seq.*) particularly section 3 (16 U.S.C. 469a-1): as amended b) the Archeological Historic Preservation Act of 1974.

(b) *Floodplain management and wetland protection*.

(1) Flood Disaster Protection Act of 1973 (42 U.S.C. 4001 *et seq.*) as amended: particularly sections 102(a)(42 U.S.C. 4012a (a) and 4106 (a).

(2) Executive Order 11988. Floodplain Management, May 24, 1977 (42 FR28951 *et seq.*): particularly section 2(a).

(3) Executive Order 11990. Protection of Wetlands. May 24, 1977 (42 FR 28951 *et seq.*): particularly section 2 and 5.

(c) *Coastal areas protection and management*.

(1) The Coastal Zone Management Act of 1972 (16 U.S.C. 1451 *et seq.*) as amended: particularly section 307 (c) and (d)(16 U.S.C. 1456 (c) and (d)).

(2) The Coastal Barrier Resources Act of 1982 (16 U.S.C. 3501 *et seq.* particularly sections 5 and 6 (16 U.S.C. 3504 and 3505.

(d) Sole source aquifers. The Safe Drinking Water Act of 1974 (42 U.S.C. 201.300 (f) *et seq.* and 21 U.S.C. 349) as amended: particularly section 1424(e)(42 U.S.C.300h-303(e).

(e) Endangered species. The Endangered Species Act of 1973 (16 U.S.C. 1531 *et seq.* as amended: particularly Section 7 (b) and (c)(16 U.S.C. 1278 (b) and (c)).

(f) *Wild and scenic rivers*. The Wild and Scenic Rivers Act of 1968 (16 U.S.C. 1271 *et seq.*) as amended: particularly section 7 (b) and (c)(16 U.S.C. 1278 (c) and (d)).

(g) *Air quality*. The Clean Air Act (42 U.S.C. 7401 *et seq.*) as amended: particularly section 176 (c) and (d)(42 U.S.C. 7506 (c) and (d)

(h) *Farmlands protection*. Farmland Protection Policy Act of 1981 (7 U.S.C. 4201 *et seq.*)particularly section 1540(b) and 1541 (7U.S.C. 4201 and 4242).

(i) *HUD environmental standards*. Environmental Criteria and Standards (24 CFR Part 51).

(j) *Toxic chemicals and radioactive materials*: HUD Notice 79-33.

(k) *Environmental justice*: Executive Order 12898 Federal Actions to address environmental justice in minority populations and low-income populations.

12/98

Other Requirements (Section 58.6) Checklist

PROJECT NAME: Louise Nevelson Plaza Redesign

GRANT NUMBER: HUD CDBG No. B-02-DW-36-0002

In addition to the duties under the laws and authorities specified in 58.5 for assumption by Responsible Entities (RE's) under the laws cited in 58.1(b), RE's must comply with the following requirements. Applicability of the following requirements does not trigger the certification and release of funds procedure under this Part or preclude exemption of an activity under 58.34 (a)(12) and/or the applicability of 58.35(b). However, the RE remains responsible for addressing the following requirements in its ERR and meeting these requirements, where applicable, regardless of whether the activity is exempt under 58.34 or Categorically Excluded under 58.35 (a) or (b).

(a) Federal Flood Insurance Purchase Requirements (do not apply to funds from Federal formula grants made to a State).

(1) Does the project involve acquisition or construction (including rehabilitation) in a community identified by the Federal Emergency Management Agency (FEMA) as having special flood hazard areas (100 year and 500 year floodplains)? Yes ___ No _X_. If "Yes," go to (a)(2). If "No," go to Question (b).

(2) Is the project located in 100 year flood plain (500 year floodplain for "critical" actions")? Yes __ No _X_ If "Yes," go to (a)(3). If "No," go to Question (b).

(3) Is the community in which the project is located ( ) participating in the National Flood Insurance Program or, ( ) has less than a year passed since FEMA notified the community concerning such hazards. (Please check one of the above depending on the situation) Yes ___ No _X__. If "Yes," attach a statement concerning how you will assure that flood insurance will be maintained in accordance with the "Flood Insurance Protection" guidance sheet attached to this Checklist and go to Question (b). The implementation of this project consistent with your statement must be made a condition on the environmental findings and recommendations for the project. If "No," project cannot be funded.

*As defined in the U.S. Water Resources Council's Floodplain Management Guidelines for Implementing Executive Order 11988.

(b) Coastal Barriers Resources

Is the project to be undertaken located in the coastal Barrier Resources System, as amended by the Coastal Barrier Improvement Act of 1990 (16 U.S.C. 3501)?
Yes ___ No _X_. If "Yes," Federal financial assistance may not be provided. If "No," then go to Question (c).

(c) Projects located in Close Proximity to Airports Contained on the HUD list of 24 CFR Part 51D Covered Airports.

Does the project involve assistance, subsidy, or insurance for the purchase or sale of an existing property in a Runway Clear Zone or Clear Zone as defined in 24 CFR Part 51D? Yes___ No_X_. If "Yes," the buyer must be advised that the property is in a runway Clear Zone or Clear Zone, what the implications of such a location are, and that there is a possibility that the property may, at a later date, be acquired by the airport operator. The buyer must sign a statement acknowledging receipt of this information. The implementation of this requirement must be made a condition in the environmental review findings and recommendations for this project.

Prepared by: Irene Chang Title: General Counsel

Date:_____

FIGURE 1

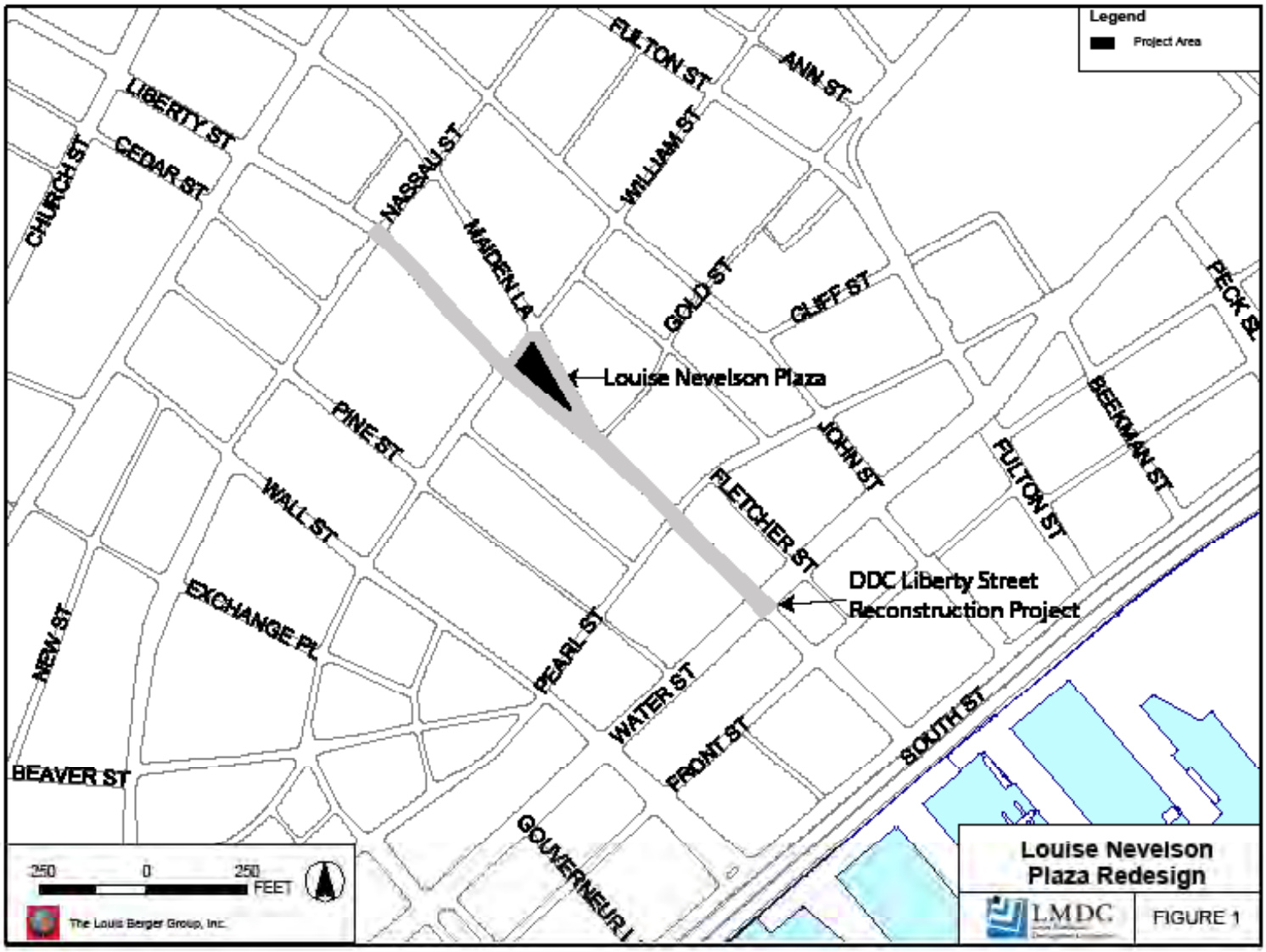

Legend
Project Area
FULTON ST
ANN ST
LIBERTY ST
CEDAR ST
CHURCH ST
NASSAU ST
WILLIAM ST
MAIDEN LA
GOLD ST
CLIFF ST
PECK SL
Louise Nevelson Plaza
PINE ST
JOHN ST
BEEKMAN ST
FULTON ST
WALL ST
FLETCHER ST
DDC Liberty Street
Reconstruction Project
NEW ST
EXCHANGE PL
PEARL ST
WATER ST
SOUTH ST
FRONT ST
BEAVER ST
GOUVERNEUR L
250 0 250 FEET
The Louis Berger Group, Inc.
Louise Nevelson
Plaza Redesign
LMDC
FIGURE 1

FIGURE 2

LOUISE NEVELSON PLAZA *REDEVELOPMENT*

Lower Manhattan Development Corporation

ILLUSTRATIVE SITE PLAN

L1a

ATTACHMENT A

ATTACHMENT A

LOUISE NEVELSON PLAZA REDESIGN

SUPPLEMENTAL ANALYSIS

INTRODUCTION

Community Development Block Grant (CDBG) funding would be used for the Louise Nevelson Plaza Redesign to enhance the area bounded by Maiden Lane, William Street, Gold Street and Liberty Street in Lower Manhattan by restoring the Louise Nevelson Plaza and upgrading illumination, accessibility, usability and the aesthetics of the space. (the "Proposed Action").

The Proposed Action would improve public open space in Lower Manhattan and enrich the cultural resources of Lower Manhattan. As a public facility, the Proposed Action would add to the quality of life for all communities in Lower Manhattan and draw residents and visitors to the area, contributing toward the restoration, stabilization and enhancement of the Lower Manhattan communities that were severely impacted by the September 11, 2001 attacks on the World Trade Center.

PROJECT AREA

The Proposed Action would be located in Lower Manhattan (the "Project Area"):
Area bounded by Maiden Lane, William Street, Gold Street and Liberty Street (near the Federal Reserve);
(See Figures "1" and "2")

PROJECT DESCRIPTION

The project would enhance the Louise Nevelson Plaza by upgrading illumination, accessibility, and the aesthetics of the existing space. Activities proposed include: highlight the Louise Nevelson sculptures so they are the Plaza's centerpiece, as intended; additional and better-suited trees to complement the sculptures; increased seating to make it more accessible to pedestrians; increased public safety with the installation of artistic lighting to activate the plaza at night to make it more welcoming and a new Federal Reserve Guard-booth that better fits the plaza design.

As seen in the attached map (Figure 1) the Plaza is located on Liberty Street and Maiden Lane between Gold and William Streets, in the area of the NYCDDC Liberty Street Reconstruction Project. NYCDDC's scope of work on the Plaza entails restoration of sculptures and the adjustment of the Liberty Street curbline of the Plaza. NYCDDC in its Liberty Street Reconstruction Project proposes to reconstruct roadway, curbs, and sidewalks, including street lighting as well as utility work on Liberty Street from Nassau to Gold Streets, Maiden Lane from William to Water Streets, and Pearl Street from Fulton to John Streets. The Lower Manhattan Development Corporation's (LMDC) scope for Louise Nevelson Plaza covers the enhancements to the Plaza as indicated below.

Enhancement of the Louise Nevelson Plaza includes the following:

- Installation of a granite plinth to highlight the large sculpture;
- Planting a birch grove on the expanded eastern tip and honey locusts in other areas;
- Installation of new cast glass benches and moveable chairs;
- Implementation of an artistic lighting plan to activate the plaza at night to meet NYCDOT standards;
- Redesign of the Federal Reserve guardhouse.

The NYCDDC Liberty Street Reconstruction Project covers the following work to be done on the Plaza:

- Stabilization of sub-grade conditions under the Louise Nevelson Plaza;
- Restoration of the sculptures;
- Adjustment of the Liberty Street curb-line.

OTHER STATUTORY REQUIREMENTS AND EXECUTIVE ORDERS

The following section provides a brief discussion of the Proposed Action's compliance with various laws and executive orders as listed in "Sample Field Notes Checklist", per HUD Directive Number 1390.2 - *Sample Assessment Guide for Housing Projects*.

Zoning & Land Use: The Proposed Action is within New York City's general Central Commercial zoning district (C5-5). A wide range of commercial and related uses is allowed within this zone. The Proposed Action does not significantly impact or require changes to zoning regulations or land uses in the area.

State Implementation Plan (SIP): The *Clean Air Act* (CAA) requires federal actions to conform to any SIP approved or promulgated under Section 110 of the Act. For actions, the applicable conformity requirements specified in 40 CFR Part 51, Subpart T; 40 CFR Part 93, Subpart B; and the applicable SIP must be met. Under the Federal Rule on General Conformity, 40 CFR Part 93, a conformity determination is required only when emissions occur in a non-attainment area or maintenance area.

The Proposed Action is not expected to result in significant adverse air quality impacts. Delivery and haulage of materials in open-body trucks to or from the Proposed Action locations would be covered to contain dust. The Proposed Action would not change existing conditions in a manner that creates a new violation, or increases the frequency or severity of existing violations of the NAAQS standards, and it conforms to the CAA and New York State requirements.

Unresolved Conflicts: LMDC does not foresee public controversy as a result of the Proposed Action. The project was funded by the LMDC to enhance one of the Financial District's largest, yet overlooked, open spaces. The design has been developed with input from neighborhood stakeholders, including the Federal Reserve and the Downtown Alliance, the local Business Improvement District, as well as from Community Board #1. The plan has the full support from these groups as well as the City agencies involved in the project (NYCDOT and NYCDDC). Project information would be provided to the public in an appropriate manner and form prior to and during actual construction activities.

Coastal Barrier Resources: The *Coastal Zone Management Act* (CZMA), 16 USC 1451 *et seq.*, requires that federal agencies in coastal areas be consistent with approved State Coastal Zone Management Programs to the maximum extent possible. If an action may affect a coastal zone area, the responsible official is required to assess the impact of the action on the coastal zone.

The Proposed Action is not located within a coastal barrier designated on a current FEMA flood map or Department of Interior coastal barrier resources map.

Flood Management: Floodplain Management EO 11988, "Floodplain Management" of 1977, requires federal agencies to evaluate the potential effects of actions they may take in a floodplain to avoid, to the extent possible, any adverse effects associated with the direct and indirect development in a floodplain. The Flood Insurance Rate Map for New York City identifies the Proposed Action as outside of the Federal Emergency Management Agency (FEMA) designated 100-year flood zone.

Historic Preservation: The *National Historic Preservation Act* (NHPA), as amended, 16 USC 470, directs federal agencies to integrate historic preservation into all activities which either directly or indirectly involve land use decision. The NHPA is administered by the National Park Service (NPS), the Advisory Council on Historic Preservation (ACHP), State Historic Preservation Offices (SHPOs), and each federal agency.

Implementing regulations include 36 CFR Part 800: *Regulations of the Advisory Council on Historic Preservation Governing the NHPA Section 106 Review Process*. Section 106 of the NHPA requires federal agencies to take into consideration the impact that an action may have on historic properties which are included on, or are eligible for inclusion on, the National Register or Historic Places.

The Proposed Action will have no effect upon cultural resources in or eligible for inclusion in the National Register of Historic Places (see Attachment B).

Noise Abatement: Noise from construction is regulated by the US Environmental Protection Agency (EPA), which regulates source emission standards for construction equipment and the New York City Noise Control Code. These regulations mandate that specific construction equipment and vehicles meet emission standards for the specific class of equipment. They also restrict construction activity to the weekday hours between 7am and 6pm, and they require that the handling and transportation of construction materials be conducted to control noise.

The primary types of equipment to be used in the Project Area may include the following: rubber tire backhoe/loader; rubber tire backhoe/loader with hydraulic hammer; dump trucks; concrete trucks; rack body truck; bucket truck; air compressor for pavement breakers; and pavement breakers.

There would be no significant long-term impacts associated with the Proposed Action. There are no changes in noise levels resulting from this Proposed Action. Noise impacts associated with the repair and replacement activities would be short-term, and minimized by requiring approved mufflers on all construction vehicles and equipment. Any noise would be temporary, and would cease once work is completed.

Hazardous Industrial Operations: There are no industrial facilities handling explosive or fire-prone materials such as liquid propane, gasoline, or other storage tanks adjacent to, or visible from the Project Area.

Airport Hazards: The Proposed Action is not located within 3000 feet from the end of a runway at a civil airport, nor is the Proposed Action within 2-1/2 miles from the end of a runway at a military airfield.

Protection of Wetlands: EO 11990, "Protection of Wetlands" of 1977, requires federal agencies conducting certain activities to avoid, to the extent possible, adverse impacts associated with the destruction or loss of wetlands and to avoid support of new construction in wetlands, if a practicable alternative exists. Discharge of dredge or fill material into wetlands and other waters of the US are also regulated under Section 404 of the *Clean Water Act*.

Lower Manhattan contains no freshwater wetlands that are regulated under the Freshwater Wetlands Act. As such, the Proposed Action is not located on or near freshwater wetlands, as determined by examination of the NYSDEC freshwater wetland maps.

Tidal wetlands in Lower Manhattan are associated with the East River and Hudson River. There are no wetlands that could potentially be affected by the Proposed Action as no additional runoff, discharges or sedimentation would be expected to occur, nor would there be any construction in the wetlands. Therefore, the Proposed Action would not be expected to have an adverse impact on tidal wetlands as determined by examination of the NYSDEC tidal wetland maps.

Toxic Chemicals and Radioactive Materials: The Project Area is near some industries that generate and dispose of small quantities of chemicals or hazardous wastes (see Table A-1), and several properties have petroleum storage tanks that serve backup generators. The Project Area is not listed on an EPA Superfund National Priorities or CERCLA, or equivalent New York State list. The Proposed Action is not located within 3000 feet of a toxic or solid waste landfill site. The Project Area has known underground storage tanks along Broadway (see Table A-2).

Endangered Species: The *Endangered Species Act* (ESA), 16 USC 1538 *et seq.*, prohibits agencies from jeopardizing threatened or endangered species or adversely modifying habitats essential to their survival.

The Project Area is a developed area consisting primarily of man-made materials, with minimal natural vegetation or habitat in the densely populated portion of New York City. No significant adverse impacts are anticipated as a result of the Proposed Action on the endangered or threatened species or critical habitats located at or near the Project Site (see Attachment C).

Sole Source Aquifers: The "Sole Source Aquifer Protection Program" (SSA) is authorized by the Safe Drinking Water Act of 1974, 42 USC 201, 300 *et seq.*, which requires safeguards for drinking water systems that are the sole, or primary drinking water source of an area. New York City receives its drinking water from three reservoir systems in upstate New York. Neither New York City nor other communities rely upon the groundwater in the Project Area for freshwater supplies.

Farmlands Protection: The Project Area is a developed area consisting primarily of man-made materials, with minimal natural vegetation or habitat in the densely populated portion of New York City. There are no adjacent properties categorized as prime or unique farmland or as farmland designated as important by New York State or New York City.

Flood Insurance: The Proposed Action would not be located within a Special Flood Hazard Area identified on a current Flood Insurance Rate Map (FIRM).

Environmental Justice: EO 12898, "Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations," and the accompanying presidential memorandum, advise federal agencies to identify and address, whenever feasible, disproportionately high and adverse human health or environmental effects on minority communities and/or low-income communities.

The Proposed Action is not anticipated to result in disproportionately high and adverse human health or environmental effects on minority communities and/or low-income communities. As such, the Proposed Action meets all applicable HUD criteria for meeting environmental justice concerns including promoting sound environmental considerations in community development and housing policies that, at the same time, would preserve housing affordability and encourage rural and urban economic growth and private sector investment.

Table A-1

Small Quantity Generators of Chemicals or Hazardous Wastes (0 to 1/8 mile radius)

Address	Type of Materials Generated
16 Liberty Street	Petroleum Oil containing between 50 and 500 ppm of PCBs
1 Chase Plaza	PCB Oil (concentrated) from transformers, capacitors, etc.; other miscellaneous PCB wastes
1 Chase Manhattan Plaza	Non-listed corrosive wastes; halogenated solvents and still bottoms from recovery of solvents; non-listed ignitable wastes
1 Chase Manhattan Plaza Basement	halogenated solvents and still bottoms from recovery of solvents; non-listed corrosive wastes
61 Maiden Lane	Petroleum Oil with 500 ppm of PCBs
33 Liberty Street	Non-listed ignitable wastes
83 John Street	Petroleum Oil containing between 50 and 500 ppm of PCBs
110 William Street Basement	Unknown
85 John Street	No information available
15 Nassau Street	Petroleum Oil containing between 50 and 500 ppm of PCBs
48 Wall Street	Petroleum Oil containing between 50 and 500 ppm of PCBs
48 Wall Street	Petroleum Oil with 500 ppm of PCBs
48 Wall Street	No information available
40 Wall Street	PCB Oil (concentrated) from transformers, capacitors, etc.; other miscellaneous PCB wastes
John & Nassau Street	Lead 5.0 mg/l

Source: EDR Radius Map Report, Louise Nevelson Plaza Redesign, Maiden Land and Liberty Street, New York, New York, January 20, 2005

Table A-2

Sites with Underground Storage Tanks (0 to ¼ mile radius)

Address	Number/Size of Underground Storage Tank (UST) and Type of Materials Stored
One Chase Manhattan Plaza	2 – 15,000 gallon UST containing #1, 2 or 4 fuel oil, in service
89 John Street	1 – 10,000 gallon UST containing #1, 2 or 4 fuel oil, in service
60 Wall Street	2 – 12,500 gallon UST containing #1, 2, or 4 fuel oil, in service
135 William Street	1 – 3,500 gallon UST containing #5 or 6 fuel oil, in service
180 Broadway	1 – 5,000 gallon UST containing #5 or 6 fuel oil, in service
87 Nassau Street	1 – 5,000 gallon UST containing #5 or 6 fuel oil, in service
185 Broadway	1 – 2,500 gallon UST containing #1, 2, or 4 fuel oil, closed
170 Broadway	1 – 7,500 gallon UST containing #5 or 6 fuel oil, in service
176 Broadway	1 – 7,500 gallon UST containing #5 or 6 fuel oil, in service
195 Broadway	1 – 4,814 gallon UST containing diesel, in service
198 Broadway	1 – 4,000 gallon UST containing #1, 2 or 4 fuel oil, in service
71 Broadway	1 – 7,500 gallon UST containing #1, 2 or 4 fuel oil, in service

Source: EDR Radius Map Report, Louise Nevelson Plaza Redesign, Maiden Land and Liberty Street, New York, New York, January 20, 2005

ATTACHMENT B

New York State Office of Parks, Recreation and Historic Preservation
Historic Preservation Field Services Bureau
Peebles Island, PO Box 189, Waterford, New York 12188-0189 518-237-8643

NEW YORK STATE
Bernadette Castro
Commissioner

April 13, 2005

Alison Drury
The Louis Berger Group, Inc.
One Seaport Plaza
199 Water St., 23rd floor
New York, New York 10038

Re: HUD
Louise Nevelson Plaza Redesign
Plaza bounded by William St., Maiden Lane,
Gold St
Manhattan, New York County
05PR00269

Dear Ms. Drury:

Thank you for requesting the comments of the State Historic Preservation Office (SHPO). We have reviewed the project in accordance with Section 106 of the National Historic Preservation Act of 1966.

Based upon this review, it is the SHPO's opinion that your project will have No Effect upon cultural resources in or eligible for inclusion in the National Registers of Historic Places.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

Ruth L. Pierpont

Ruth L. Pierpont
Director

RLP:bsa

ATTACHMENT C

United States Department of the Interior

FISH AND WILDLIFE SERVICE
3817 Luker Road
Cortland, NY 13045

January 24, 2005

Ms. Alison Drury
Planner
The Louis Berger Group, Inc.
One Seaport Plaza
199 Water Street, 23rd Floor
New York, NY 10038

Dear Ms. Drury:

This responds to your correspondence of January 14, 2005, requesting information on the presence of endangered or threatened species and significant habitats in the vicinity of the proposed Louise Nevelson Plaza Redesign in the Borough of Manhattan, New York County, New York.

Except for occasional transient individuals, no Federally-listed or proposed endangered or threatened species under our jurisdiction are known to exist in the project impact area. In addition, no habitat in the project impact area is currently designated or proposed "critical habitat" in accordance with provisions of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.). Therefore, no further ESA coordination or consultation with the U.S. Fish and Wildlife Service (Service) is required. Should project plans change, or additional information on listed species or critical habitat becomes available, this determination may be reconsidered. The most recent compilation of Federally-listed and proposed endangered and threatened species in New York* is available for your information. If your project is not completed within one year from the date of this determination, we recommend that you contact us to ensure that the listed species presence/absence information for your proposed project is current.

The above comments pertaining to endangered or threatened species under our jurisdiction are provided pursuant to the ESA. This response does not preclude additional Service comments under other legislation.

For additional information on fish and wildlife resources or State-listed species, we suggest you contact the appropriate New York State Department of Environmental Conservation regional office(s), * and:

New York State Department of Environmental Conservation
New York Natural Heritage Program Information Services
625 Broadway
Albany, NY 12233-4757
(518) 402-8935

If you require additional information or assistance please contact Jill Olin of our Long Island Field Office at (631) 581-2941.

Sincerely,

David A. Stilwell
Field Supervisor

* Additional information referred to above may be found at our website at: http://nyfo.fws.gov/es/esdesc.htm.

cc: NYSDEC, Long Island City, NY (Environmental Permits)
NYSDEC, Albany, NY (Natural Heritage Program)

New York State Department of Environmental Conservation
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, 5th floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • **FAX:** (518) 402-8925
Website: www.dec.state.ny.

Erin M. Crotty
Commissioner

February 10, 2005

Alison Drury
Louis Berger Group
1 Seaport Pl,
199 Water Street, 23rd floor
New York, NY 10038

Dear Ms. Drury:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to an Environmental Assessment for the proposed Redesign for the Louise Nevelson Plaza, area as indicated on the map you provided, located in downtown New York City.

Enclosed is a report of rare or state-listed animals and plants, significant natural communities, and other significant habitats, which our databases indicate occur, or may occur, on your site or in the immediate vicinity of your site. The information contained in this report is considered sensitive and may not be released to the public without permission from the New York Natural Heritage Program.

The presence of rare species may result in this project requiring additional permits, permit conditions, or review. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, at the enclosed address.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. This information should not be substituted for on-site surveys that may be required for environment impact assessment.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

Sincerely,

Betty A. Ketcham, Information Services
NY Natural Heritage Program

Encs.

cc: Reg. 2, Wildlife Mgr.
Peter Nye, Endangered Species Unit, Albany

Natural Heritage Report on Rare Species and Ecological Communities

NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor,
Albany, NY 12233-4757
(518) 402-8935

-This report contains **SENSITIVE** information that may not be released to the public without permission from the NY Natural Heritage Program.
-Refer to the User's Guide for explanations of codes, ranks and fields.
-Location maps for certain species and communities may not be provided if 1) the species is vulnerable to disturbance, 2) the location and/or extent is not precisely known, and/or 3) the location and/or extent is too large to display.

BIRDS

Falco peregrinus

Peregrine Falcon

Office Use

NY Legal Status:	Endangered	**NYS Rank:**	S3B; Vulnerable	5292
Federal Listing:		**Global Rank:**	G4; Apparently secure	
Last Report:	**	**EO Rank:**	**	ESU

County:	*New York*
Town:	City Of New York
Location:	Wall Street
Directions:	The birds have been observed nesting at 2 sites. A nest box at 48 Wall Street was used until 1996. The following year the pair appeared to move a new nest site on Water Street. Water Street is south of Wall Street near the East River.
General Quality and Habitat:	**For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

Records Processed

Tab 9

SUBCONTRACTORS

SUBCONTRACTS

TAB 9

Louis Berger will be working with two subconsultants, PARS Environmental and Aerotek, for either the program manager contract or EAF contract. Below are the tasks to be performed by each subconsultant.

Subconsultants	
Company	Tasks
PARS Environmental, Inc. **500 Horizon Drive, Suite 540** **Robbinsville, NJ 08691** **609.890.7277**	Environmental Support
Aerotek **600 Parsippany Road, Suite 101b** **Parsippany, NJ 07054** **973.560.5005**	IT Manager Database Manager Chief Accounting Manager

REQUIRED SUBMISSION IF BIDDER INTENDS TO SUBCONTRACT

STATE OF NEW JERSEY
DIVISION OF PURCHASE AND PROPERTY (DPP)
SUBCONTRACTOR UTILIZATION PLAN

DPP Solicitation No.:
RFQ7878Z3S

DPP Solicitation Title:
Program Management & Environmental Historic Field

Bidder's Name and Address:
The Louis Berger Group Inc.
412 Mount Kemble Avenue, P.O. Box 1946
Morristown, NJ 07962-1952

Bidder's Telephone No.: 973-407-1000

Bidder's Contact Person: Gail Khan

INSTRUCTIONS: List all businesses to be used as subcontractors. This form may be duplicated for extended lists.

SUBCONTRACTOR'S NAME ADDRESS, ZIP CODE TELEPHONE NUMBER AND VENDOR ID NUMBER	CHECK HERE IF CONTRACT IS NOT SMALL BUSINESS SMALL BUSINESS CATEGORY *			TYPE(S) OF GOODS OR SERVICES TO BE PROVIDED	ESTIMATED VALUE OF SUBCONTRACTS
	I	II	III		
Pars Environmental Inc. 500 Horizon Drive, Suite 540 Robbinsville, NJ 08691 800.958.1118			X	Environmental reviews and environmental specialists/scientists	10%
Aerotek 600 Parsippany Road, Suite 101b Parsippany, NJ 07054 973.560.5000	Not a small business			IT management, database management, and chief accountant	10%

Other SBEs will be selected and utilized upon contract commencement in effort to meetin contract SBE utilization of 25%

* For those Bidders listing Small Business Subcontractors: Attach copies of Division of Revenue - Small Business Enterprise Unit registration for each subcontractor listed. If bidder has not achieved established subcontracting set-aside goals, also attach documentation of good faith effort to do so in the relevant category in accordance with NJAC17:13-4 and the Notice to All Bidders.

I hereby certify that this Subcontractor Utilization Plan (Plan) is being submitted in good faith. I certify that each subcontractor has been notified that it has been listed on this Plan and that each subcontractor has consented, in writing, to its name being submitted for this contract. Additionally, I certify that I shall notify each subcontractor listed on the Plan, in writing, if the award is granted to my firm, and I shall make all documentation available to the Division of Purchase and Property upon request.

I further certify that all information contained in this Plan is true and correct and I acknowledge that the State will rely on the truth of the information in awarding the contract.

PRINCIPAL OF FIRM:

[redacted] Small Business Liaison Officer 6/25/2013

[Signature] [Title] [Date]

PB-SA-3
Revised 10/11

Tab 10

SUBCONTRACTOR REFERENCES

SUBCONTRACTOR REFERENCES

TAB 11

PARS Environmental References	
USACE	Lenard Gunnell, PG CELRL-ED-E-E 600 Dr. martin Luther King Jr. Pl., Room 351 Louisville, KY 40202 502.315.6317 Lenard.P.Gunnell@usace.army.mil
U.S. Army Garrison APG	Ms. Judith Weintraub, Directorate of Public Works, Environmental Division Building 4304 Susquehanna Ave. Aberdeen Proving Ground, MD 21005 410.306.2285 Judith.m.weintraub.civ@mail.mil
U.S. Army, 99th RSC	Amanda Murphy, Program Coordinator (NEPA&CR) 5231 South Scott Plaza Joint Base McGuire-Dix-Lakehurst, New Jersey 08640 609.521.8047 Amanda.w.murphy.ctr@mail.mil

AEROTEK References	
Environmental Restoration, LLC	Scott Allen, Response Manager 1666 Fabick Dr. St. Louis, MO 63026 314.566.1209 email not available
BELFOR Property Restoration	Matt Cannon 608 Jeffers Circle Exton, PA 19341 610.594.5566 email not available
URS Corporation	Rocco Francica, Senior Corporate Recruiter 1255 broad Street, Suite 201 Clifton, New Jersey 07013-3398 rocco.francica@urs.com

Cost Quote Price Schedule 2 Program Manager - Firm Fixed Pricing

Line No.	Description	Unit	Estimated Quantity (A)	Year 1 (B)	Year 1 Total (A) * (B)	Year 2 (C)	Year 2 Total (A) * (C)	Year 3 (D)	Year 3 Total (A) * (D)
1	Program Start Up Section 3.1.1	Task	1	$ 141,565.68	$ 141,565.68	N/A	N/A	N/A	N/A
2	Establish IT System Section 3.1.2	Task	1	$ 83,419.60	$ 83,419.60	N/A	N/A	N/A	N/A
3	Maintenance of IT System Section 3.1.2	Month	12	$ 41,665.56	$ 499,986.72	$ 42,915.53	$ 514,986.32	$ 44,202.99	$ 530,435.91
4	Training Section 3.1.7	Month	12	$ 30,271.52	$ 363,258.24	$ 31,179.67	$ 374,155.99	$ 32,115.06	$ 385,380.67
5	Quality Assurance, Monitoring, & Tracking Sections 3.1.8 through 3.1.10	Month	12	$ 31,510.00	$ 378,120.00	$ 32,455.30	$ 389,463.60	$ 33,428.96	$ 401,147.51
6	Document Management & Retention Section 3.1.12	Month	12	$ 22,962.72	$ 275,552.64	$ 23,651.60	$ 283,819.22	$ 24,361.15	$ 292,333.80
7	Preliminary review before taskout and assignment to EAF Contractors	Each	20000	$330	$ 6,600,000.00	$ 339.90	$ 6,798,000.00	$ 350.10	$ 7,001,940.00
8	Preliminary review before taskout and assignment to EAF Contractors (Volume 0 to 10,000)	Each	10000	$330	$ 3,300,000.00	$ 339.90	$ 3,399,000.00	$ 350.10	$ 3,500,970.00
9	Preliminary review before taskout and assignment to EAF Contractors (Volume 10,0001 to 20,000)	Each	10000	$330	$ 3,300,000.00	$ 339.90	$ 3,399,000.00	$ 350.10	$ 3,500,970.00
10	Preliminary review before taskout and assignment to EAF Contractors (Volume >20,0001)	Each	10000	$325	$ 3,250,000.00	$ 334.75	$ 3,347,500.00	$ 344.79	$ 3,447,925.00
11	Specialized study reviews andassignments (Volume 0 to 10,000)	Each	10000	$640	$ 6,400,000.00	$ 659.20	$ 6,592,000.00	$ 678.98	$ 6,789,760.00
12	Specialized study reviews andassignments (Volume 10,001 to 20,000)	Each	10000	$640	$ 6,400,000.00	$ 659.20	$ 6,592,000.00	$ 678.98	$ 6,789,760.00
13	Specialized study reviews and (Volume >20,000)	Each	10000	$640	$ 6,400,000.00	$ 659.20	$ 6,592,000.00	$ 678.98	$ 6,789,760.00
14	Section 106 and State HistoricPreservation Reviews (Volume 0 to 10,000)	Each	10000	$320	$ 3,200,000.00	$ 329.60	$ 3,296,000.00	$ 339.49	$ 3,394,880.00
15	Section 106 and State HistoricPreservation Reviews (Volume 10,0001 to 20,000)	Each	10000	$320	$ 3,200,000.00	$ 329.60	$ 3,296,000.00	$ 339.49	$ 3,394,880.00
16	Section 106 and State HistoricPreservation Reviews (Volume >20,000)	Each	10000	$320	$ 3,200,000.00	$ 329.60	$ 3,296,000.00	$ 339.49	$ 3,394,880.00

Cost Quote Price Schedule 2 Program Manager - Loaded Hourly Rate Pricing

Line #	Labor Title	Hourly Rate Year 1	Hourly Rate Year 2	Hourly Rate Year 3
Office,Management, and IT DevelopmentStaff				
17	Project Manager	$154.81	$159.61	$164.56
18	Assistant Project Manager (2)	$120.00	$125.64	$129.54
19	Company Chief Executive	$190.00	$215.27	$221.95
20	Program Development Specialist	$120.00	$125.64	$129.54
21	Facilities Operations Manager	$120.00	$125.64	$129.54
22	Information Technology Manager	$120.00	$125.64	$129.54
23	Data Base Manager	$140.09	$144.44	$148.91
24	Programmer 1–Senior Level	$140.09	$144.44	$148.91
25	Programmer 2–Junior Level	$83.85	$86.45	$89.13
26	AdministrativeSupport Staff/Data Entry	$55.21	$56.93	$58.69
27	Chief Accountant	$147.75	$152.33	$157.06
28	Staff Accountant	$95.22	$98.16	$101.21
29	Accounting Assistant	$72.43	$74.68	$76.99
30	Contract Manager	$147.75	$152.33	$157.06
31	Field Manager	$147.75	$152.33	$157.06
32	Subcontractor Manager	$122.65	$126.45	$130.37
33	Environmental Specialist1	$121.58	$125.35	$129.24
34	Environmental Specialist 2	$73.20	$75.47	$77.81
35	Environmental Engineer 1	$111.10	$114.55	$118.09
36	Environmental Engineer 2	$91.36	$114.55	$97.12
37	GIS Specialist 1 –Senior Level	$97.64	$100.66	$103.79
38	GIS Specialist 2 –Junior Level	$64.58	$66.59	$68.65
39	Historic Preservation Specialist1	$73.93	$73.93	$73.93
40	Historic Preservation Specialist 2	$59.66	$61.51	$63.42
41	Architect	$98.21	$101.26	$104.40
42	Engineering Aide	$52.25	$75.67	$78.01
43	Field Associate	$44.39	$44.39	$44.39
44	Staff/Project Assistant	$68.62	$70.75	$72.94

Cost Quote Price Schedule 2 EAF Contractor - Loaded Hourly Rate Pricing

Line #	Labor Title	Hourly Rate Year 1	Hourly Rate Year 2	Hourly Rate Year 3
Office and Management Staff				
16	Principal	$190.00	$215.27	$221.95
17	Program Director	$154.81	$159.61	$164.56
18	Task manager	$120.00	$125.64	$129.54
Project Field Staff				
19	Field Manager	$120.00	$125.64	$129.54
20	Field Professional	$58.12	$59.93	$61.78
21	Principal/Senior EnvH.Scientist/Engineer/ Arch	$121.58	$125.35	$129.24
22	Principal/Senior Biologist	$121.58	$125.35	$129.24
23	Principal/Senior Historic PreservationSpecialist	$73.93	$73.93	$73.93
24	Senior Hydrogeolgist	$135.50	$139.71	$144.04
25	Junior Hydrogeolgist	$68.38	$70.50	$72.68
26	Field Associate	$55.21	$56.93	$58.69
27	Field Observer	$55.21	$56.93	$58.69
28	Staff Environmental Scientist, Engineer,Archite	$91.36	$94.19	$97.12
29	Hydrogeologist	$85.50	$97.68	$100.70
30	Senior Technician	$61.03	$61.03	$61.03
31	JuniorTechnician	$46.73	$46.73	$46.73
32	Senior GIS Specialist	$97.64	$100.66	$103.79
33	Junior GIS Specialist	$64.58	$66.59	$68.65
34	Administrative Support/Data Entry	$66.59	$68.66	$70.79

Cost Quote Price Schedule 2 EAF Contractor - Firm Fixed Pricing

Line No.	Description	Unit	Estimated Quantity (A)	Year 1 (B)	Year 1 Total (A) * (B)	Year 2 (C)	Year 2 Total (A)* (C)	Year 3 (D)	Year 3 Total (A) * (D)
1	Base Price per application for Exempt (Volume 1 to 100) Section 3.2.2	Each	100	$550.00	$55,000.00	N/A	N/A	N/A	N/A
2	Base Price per application for Exempt (Volume 101 to 200) Section 3.2.2	Each	100	$525.00	$52,500.00	N/A	N/A	N/A	N/A
3	Base Price per application for Exempt (Volume >200) Section 3.2.2	Each	100	$500.00	$50,000.00	$515.00	$51,500.00	$530.45	$53,045.00
4	Base Price per application (Fixed Fee) for Categorically Excluded Subject to 58.5 (Volume 1 to 100) Section 3.2.4	Each	100	$800.00	$80,000.00	$824.00	$82,400.00	$848.72	$84,872.00
5	Base Price per application (Fixed Fee) for Categorically Excluded Subject to 58.5 (Volume 101 to 200) Section 3.2.4	Each	100	$760.00	$76,000.00	$782.80	$78,280.00	$806.28	$80,628.40
6	Base Price per application (Fixed Fee) for Categorically Excluded Subject to 58.5 (Volume GT 200?) Section 3.2.4	Each	100	$725.00	$72,500.00	$746.75	$74,675.00	$769.15	$76,915.25
7	Base Price per application (Fixed Fee) for non-tiered Environmental Assessments (Volume 1 to 100) Section 3.2.2	Each	100	$795.00	$79,500.00	$818.85	$81,885.00	$843.42	$84,341.55
8	Base Price per application (Fixed Fee) for non-tiered Environmental Assessments (Volume 101 to 200) Section 3.2.2	Each	100	$755.00	$75,500.00	$777.65	$77,765.00	$800.98	$80,097.95
9	Base Price per application (Fixed Fee) for non-tiered Environmental Assessments (Volume GT 200) Section 3.2.2	Each	100	$715.00	$71,500.00	$736.45	$73,645.00	$758.54	$75,854.35
10	Base Price per application for Tier 2 Site Specific Reviews (Volume 1 100) Section 3.2.8	Each	100	$3,750.00	$375,000.00	$3,862.50	$386,250.00	$3,978.38	$397,837.50
11	Base Price per application for Tier 2 Site Specific Reviews (Volume 101-200) Section 3.2.8	Each	100	$3,560.00	$356,000.00	$3,666.80	$366,680.00	$3,776.80	$377,680.40
12	Base Price per application for Tier 2 Site Specific Reviews (Volume GT 200) Section 3.2.8	Each	100	$3,370.00	$337,000.00	$3,471.10	$347,110.00	$3,575.23	$357,523.30
13	FEMA Addendum Section 3.2.3, 3.2.8	Each	UNK	$350.00	$350.00	$360.50		$371.32	
14	Reporting Functions Section 3.2.13, 3.2.14, 3.2.15	Month	12	$2,500.00	$30,000.00	$2,575.00	$30,900.00	$2,652.25	$31,827.00
15	Environmental Impact Statement Fee Section 3.2.2	Each	UNK	$600,000.00	$600,000.00	$618,000.00		$636,540.00	