Site 26 (KN07054): Southerly overview of barn at 402 E. Bullrun Valley Drive.

Site 26 (KN07054): Southwesterly view toward proposed tower sites.
Site 27 (KN07053): South-southwesterly overview of property at 402 E. Bullrun Valley Drive.

Site 27 (KN07053): Southwesterly view toward proposed tower sites.
Site 28 (KN07079): North-northeasterly overview of property at 109 E. Brushy Valley Drive; Knox County tax records indicate that the house was constructed in 1989.

Site 28 (KN07079): Northwesterly view toward proposed tower sites.
Site 29 (KN07078): South-southeasterly overview of property at 224 E. Brushy Valley Drive.

Site 29 (KN07078): West-northwesterly view toward proposed tower sites.
Site 30 (KN07077): South-southeasterly overview of property at 224 E. Brushy Valley Drive; Knox County tax records and aerial views in Google Earth confirm that the resource has been demolished.
Site 30 (KN07077): West-northwesterly view toward proposed tower sites.

Site 31 (KN07074): West-northwesterly overview of property at 421 E. Brushy Valley Drive.

Site 31 (KN07074): Westerly view toward proposed tower sites.
Site 32 (KN07075): South-southeasterly overview of property at 500 E. Brushy Valley Drive; the access road to KN07075 and KN07076 no longer exists and is gated by this property, constructed in 2009. Knox County tax records and aerial views in Google Earth indicate that the resource has been demolished.

Site 32 (KN07075): West-northwesterly view toward proposed tower sites.
Site 33 (KN07076): South-southeasterly overview of property at 500 E. Brushy Valley Drive; the access road to KN07075 and KN07076 no longer exists and is gated by this property, constructed in 2009. Knox County tax records and aerial views in Google Earth indicate that the resource has been demolished.

Site 33 (KN07076): West-northwesterly view toward proposed tower sites.
Site 34 (KN07082): Southerly overview of property at 920 W. Brushy Valley Drive.

Site 34 (KN07082): North-northeasterly view toward proposed tower sites.
Site 35 (KN07081): South-southwesterly overview of property at 921 W. Brushy Valley Drive.

Site 35 (KN07081): North-northwesterly view toward proposed tower sites.
Site 36 (KN07080): Northwesterly overview of property at 741 W. Brushy Valley Drive.

Site 36 (KN07080): Northerly view toward proposed tower sites.
Site 37 (KN07098): West-northwesterly overview of property at 8916 Heiskell Road.

Site 37 (KN07098): Northwesterly view toward proposed tower sites.
Site 38 (KN07097): Southeasterly overview of property at 8833 Heiskell Road.

Site 38 (KN07097): Northwesterly view toward proposed tower sites.
Site 39 (KN07096): South-southeasterly overview of property at 8721 Heiskell Road; Knox County tax records and aerial views in Google Earth indicate that the resource has been demolished.

Site 39 (KN07096): Northwesterly view toward proposed tower sites.
Site 40 (KN07088): Northerly overview of property at 1327 Newman Road; Knox County tax records and aerial views in Google Earth confirm that the resource has been demolished.

Site 40 (KN07088): North-northwesterly view toward proposed tower sites.
Site 41 (KN07090): West-southwesterly overview of property at 1335 Newman Road; Knox County tax records and aerial views in Google Earth confirm that the resource is extant, though not visible due to vegetation.

Site 41 (KN07090): North-northwesterly view toward proposed tower sites.
Site 42 (KN07089): Northwesterly overview of property at 1327 Newman Road.

Site 42 (KN07089): North-northwesterly view toward proposed tower sites.
Attachment 5

**Historic Properties Identified in the APE for Visual Effects**
Historic Properties Identified in the APE for Visual Effects

At Lotis’ request, CRA completed a records review of architectural history sites at the TN SHPO’s office, in Nashville, Tennessee. Completed with the assistance of Dr. Joseph Garrison, the records review focused on a 1-1/2 mile area of potential effects (APE) and found no (0) locations within the APE of the proposed project that require consideration. A copy of CRA’s report is included in Attachment 4.
Tribal/NHO Involvement
Tribal/NHO Involvement

Lotis utilized the Tower Construction Notification System (TCNS) maintained by the Federal Communications Commission (FCC) to identify any tribal entities with interest in the area of the proposed project. This identification phase was conducted on September 20, 2013 (TCNS Number 100241). The FCC responded via e-mail on September 27, 2013, indicating the following eight (8) groups were forwarded information regarding the location of the proposed project via electronic or regular mail.

1. Alabama-Coushatta Tribe of Texas
2. Coushatta Indian Tribe
3. Eastern Band of Cherokee Indians
4. Keweenaw Bay Indian Community
5. Muscogee Creek Nation
6. United Keetoowah Band of Cherokee Indians
7. Eastern Shawnee Tribe of Oklahoma
8. Shawnee Tribe

Lotis contracted CRA to perform an Archaeological Assessment at the proposed telecommunications site. No any cultural resources identified during the survey. A Copy of the Archaeological Assessment report is included in this Attachments.

To date, Lotis has only received correspondence from the United Keetoowah Band of Cherokee Indians, who have no interest in this site.
Attachment 7

Local Government Involvement

Note:
In the interest of efficiency and economy, attachments included in the original submission under this section are not duplicated throughout this NEPA Summary. The following attachment(s), found at the conclusion of this report, were included in the original submission:

- Proposed Project Summary
- Attachment 1 - Maps
- Attachment 2 - Photographs
September 23, 2013

Tim Burchett – Mayor
Knox County
400 Main Street
Knoxville, Tennessee 37902

RE: Proposed Telecommunication Tower Facility - Heiskell, Tennessee
Global Tower Partners

Dear Mayor Burchett,

Our client, Global Tower Partners (GTP), is proposing the construction of a telecommunications site within the boundaries of the Knox County’s jurisdiction. The final location of the site has yet to be determined, but will be one of the two attached candidates. Please consider this correspondence an invitation to the Knox County to comment on the possible effects the proposed project may have on sites or structures of historic significance.

Attached, please find information pertaining to the proposed telecommunication site for both candidate locations. This information includes project information and summaries, topographic maps and photographs of the proposed tower site and adjacent properties. As part of our research, Lotis is consulting with the Tennessee Historical Commission, the U.S. Fish and Wildlife Service and Native American Tribes (through FCC’s TCNS submission). Finally, a public notice seeking comment from members of the general public will be run in a local newspaper for three editions in the coming month.

Should you require further information, please do not hesitate to contact me at (716) 741-1748. Thank you for your time and attention in this matter.

Sincerely,

The Lotis Engineering Group, P.C.

David N. Robinson, P.E.
President/CEO
robinson@thelotisgroup.com

Enclosures
# REPORT OF DISPOSITION

## APPLICATION TYPE: USE ON REVIEW

<table>
<thead>
<tr>
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<th>1-I-14-UR</th>
<th>Related File Number:</th>
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<td>11/26/2013</td>
<td>Date of Revision:</td>
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<tr>
<td>Applicant:</td>
<td>OPTIMA TOWERS IV, LLC KEITH POWELL</td>
<td></td>
<td></td>
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<td>Tax ID Number:</td>
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## PROPERTY INFORMATION

- **General Location:** Northwest side of Bullrun Valley Dr., west of Heiskell Rd.
- **Proposed Use:** 270' lattice commercial telecommunications tower
- **Size:** 39.51 acres
- **Density:**
- **Growth Policy Plan:** Rural Area
- **Sector:** North County

## ADDRESS/STREET INFORMATION (where applicable)

- **Street:** 115 Bullrun Valley Dr
- **Location:**
- **Proposed Street Name:**

## ZONING INFORMATION (where applicable)

- **Current Zoning:** CB (Business and Manufacturing)
- **Requested Zoning:**
- **Former Zoning:**

## PLAN INFORMATION (where applicable)

- **Plan Amendment Type:**
- **Current Plan Category:**
- **Requested Plan Category:**

## SUBDIVISION INFORMATION (where applicable)

- **Subdivision Name:**
- **Type:**
- **No. of Lots Approved:** 0
- **Proposed S/D Name:**
- **Variances:**

## OTHER INFORMATION (where applicable)

- **Other Bus./Ord. Amend.:**

## MPC ACTION AND DISPOSITION

- **Planner In Charge:** Tom Brechko
- **Staff Recomm. (Abbr.):** APPROVE the request for a 270' lattice commercial telecommunications tower in the A (Agricultural) zoning district subject to 6 conditions.
- **Staff Recomm. (Full):**
  1. Meeting all applicable requirements of the Knox County Zoning Ordinance.
  3. Meeting all applicable requirements of the Knox County Department of Engineering and Public Works.
  4. Installing the evergreen landscaping screen along the fenced enclosure, as identified on the tree planting plan, within six months of the tower becoming operational.
  5. The tower lights shall be dual hazard warning lights (White strobe in daytime and red lights at night) and shall meet all applicable FAA requirements.
  6. At the time of the request for a building permit, posting a bond or other approved financial surety that would ensure the removal of the tower if it is abandoned.

With the conditions noted above, this request meets all criteria for a use-on-review in the A zoning district.
This is a request for a new 270 foot lattice telecommunications tower to be located within a 10,000 square foot lease area located on a portion of a 39.51 acre tract. The subject property is zoned A (Agricultural) and telecommunication towers are considered as a use on review in this district. The proposed tower site will have access to Bullrun Valley Dr., a minor collector street. The driveway is required to meet the Utility Access Driveway standards of the Knox County Fire Prevention Bureau.

The proposed tower is required to be located 297 feet (110% of the tower height) from the nearest residence. The proposed tower exceeds that minimum standard since the nearest residence, which is the residence of the property owner is 395' from the proposed tower. The nearest residence off-site is 735' from the tower. The applicant is proposing an 7' high security fence around the tower and equipment area. Due to the height of the tower, FAA does require lighting for the tower. Staff is recommending a condition that dual hazard warning lights (White strobe in daytime and red lights at night) be used.

The applicant states that there are no existing structures in the area that can be used for antenna placement to obtain the required coverage. The tower will support up to 5 telecommunication carrier antenna arrays. AT&T will be the principal client for the tower. An agreement has been submitted stating that Optima Towers agrees to make all of its facilities available to other wireless providers.

Attached to the staff report are several support documents, including a report from MPC's tower consultant, Mr. Larry E. Perry. Mr. Perry's report describes the proposal and highlights his findings. While not suggested as a required condition, Mr. Perry recommends that the applicant design the tower to hold 7 sets of antenna arrays and feedlines. Mr. Perry concludes that the 270' lattice tower is technically justified by the materials submitted by the applicant (see attached report).

EFFECT OF THE PROPOSAL ON THE SUBJECT PROPERTY, SURROUNDING PROPERTY AND THE COMMUNITY AS A WHOLE

1. The proposed development will have minimal impact on local services since utilities are available to serve this site.
2. The tower site, being located in an area made up of primarily large tracts should have minimal impact on nearby residences.

CONFORMITY OF THE PROPOSAL TO CRITERIA ESTABLISHED BY THE KNOXVILLE ZONING ORDINANCE

1. With the recommended conditions, the proposed commercial telecommunications tower at this location meets the standards required in the A (Agricultural) zoning district.
2. The proposed tower is consistent with the general standards for uses permitted on review. The proposed development is consistent with the adopted plans and policies of the General Plan, North County Sector Plan and Wireless Communications Facility Plan. The use is in harmony with the general purpose and intent of the Zoning Ordinance. Since this site is in a rural area, the use will not significantly injure the value of adjacent property. The use will not draw additional traffic through residential areas.

CONFORMITY OF THE PROPOSAL TO ADOPTED PLANS

1. The North County Sector Plan proposes agricultural uses on this property and hillside protection. With the minimal site alteration required for the proposed tower, the proposed development is consistent with this land designation.
2. Under the guidelines for tower placement in the Wireless Communications Facility Plan this "Opportunity Area" and "Sensitive Area". The proposed tower site is located in a rural/forest area. The Plan considers a rural/forest area to be an "Opportunity Areas" for the location of telecommunication towers. The Plan takes a neutral position on the location of telecommunication towers. The Plan takes a neutral position on the location of telecommunication towers. The Plan takes a neutral position on the location of telecommunication towers. The Plan takes a neutral position on the location of telecommunication towers. While located within 500' of a residence which is classified as a "Sensitive Area", and discouraged as a site for lattice towers, the only residence within that distance is the residence of the property owner. The nearest residence off-site is 735' from the tower.
3. The site is located within the Rural Area on the Knoxville-Knox County-Farragut Growth Policy Plan map.

MPC Action: Approved  
MPC Meeting Date: 1/9/2014

Details of MPC action:
1. Meeting all applicable requirements of the Knox County Zoning Ordinance.
3. Meeting all applicable requirements of the Knox County Department of Engineering and Public Works.
4. Installing the evergreen landscaping screen along the fenced enclosure, as identified on the tree planting plan, within six months of the tower becoming operational.
5. The tower lights shall be dual hazard warning lights (White strobe in daytime and red lights at night).
and shall meet all applicable FAA requirements.

6. At the time of the request for a building permit, posting a bond or other approved financial surety that would ensure the removal of the tower if it is abandoned.

With the conditions noted above, this request meets all criteria for a use-on-review in the A zoning district.

**Summary of MPC action:** APPROVE the request for a 270' lattice commercial telecommunications tower in the A (Agricultural) zoning district subject to 6 conditions.

<table>
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<td>Date of Withdrawal:</td>
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**LEGISLATIVE ACTION AND DISPOSITION**

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<th>Legislative Body:</th>
<th>Knox County Board of Zoning Appeals</th>
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<tr>
<td>Date of Legislative Action:</td>
<td>Date of Legis. Action, Second Reading:</td>
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FILE #: 1-I-14-UR

AGENDA ITEM #: 40
AGENDA DATE: 1/9/2014

APPLICANT: OPTIMA TOWERS IV, LLC KEITH POWELL
OWNER(S): Optima Towers IV, LLC

TAX ID NUMBER: 36 037
JURISDICTION: County Commission District 7
STREET ADDRESS: 115 Bullrun Valley Dr
LOCATION: Northwest side of Bullrun Valley Dr., west of Heiskell Rd.
APPX. SIZE OF TRACT: 39.51 acres
SECTOR PLAN: North County
GROWTH POLICY PLAN: Rural Area
ACCESSIBILITY: Access is via W. Bullrun Valley Dr. a minor collector street with a 16' pavement within a 50' right-of-way.
UTILITIES: Water Source: Hallsdale-Powell Utility District
Sewer Source: Hallsdale-Powell Utility District
WATERSHED: Bullrun Creek

ZONING: CB (Business and Manufacturing)
EXISTING LAND USE: Residence and vacant land
PROPOSED USE: 270' lattice commercial telecommunications tower

HISTORY OF ZONING: None noted
SURROUNDING LAND USE AND ZONING:
North: Residences and vacant land / A (Agricultural)
South: Business / CB (Business and Manufacturing)
East: Residences and vacant land / A (Agricultural)
West: Residences and vacant land / A (Agricultural)

NEIGHBORHOOD CONTEXT: The proposed site is located in an agricultural/rural residential area of northern Knox County.

STAFF RECOMMENDATION:
APPROVE the request for a 270' lattice commercial telecommunications tower in the A (Agricultural) zoning district subject to 6 conditions.

1. Meeting all applicable requirements of the Knox County Zoning Ordinance.
3. Meeting all applicable requirements of the Knox County Department of Engineering and Public Works.
4. Installing the evergreen landscaping screen along the fenced enclosure, as identified on the tree planting plan, within six months of the tower becoming operational.
5. The tower lights shall be dual hazard warning lights (White strobe in daytime and red lights at night) and shall meet all applicable FAA requirements.
6. At the time of the request for a building permit, posting a bond or other approved financial surety that would...
Attachment 8

Public Involvement
Lotis contacted the Knoxville Journal and is running a public notice in the classified section for three consecutive editions on October 25, November 1, and November 8, 2013. The proposed project is detailed in the ad and calls for public concerns on any historic property impacts were solicited. A copy of the ad is attached below.

“Global Tower, LLC would like to place on notice a medium dual lit 91.4 meter guyed communications tower (401.4 meters above mean sea level) located at 36° 4’ 25.22” north latitude and 84° 3’ 2.31” west longitude at Heiskell Road, Heiskell, TN 37754, ASR File # A0859271. The application for this proposed project can be viewed at www.fcc.gov/asr/applications by entering the ASR file number. If you have environmental concerns about the proposed structure, a Request for Environmental Review may be filed with the FCC at www.fcc.gov/asr/environmentalrequest or by writing to FCC Requests for Environmental Review, ATTN: Ramon Williams, 445 12th St SW, Washington, DC 20554. The FCC strongly encourages interested parties to file Requests for Environmental Review online. Requests for Environmental Review may only raise environmental concerns and must be filed within 30 days of the date that notice of the project is published on the FCC’s website. If you have any concerns of any historic properties that may be adversely affected by this proposed tower, please write to: David Robinson, PE, The Lotis Engineering Group, PC, 6095 Clarence Ln North, E Amherst, NY 14051. Please include the tower location and the location of the historic resource that you believe might be affected.”
Affidavit of Publication

TYPE ADVERTISEMENT: Public Notice

DOCKET NO.: 

CASE OF: Global Tower, LLC

STATE OF TENNESSEE
County of Knox

Comes the Affiant, Jeannie Wallace, and having been duly sworn deposes and states:

I, Jeannie Wallace, of Knox County and having been duly authorized to do so on behalf of the

Corporation, saith that I am the Legal Notice Supervisor for Premiere Publishing, Inc., d/b/a The Knoxville Journal, a "newspaper of general circulation" circulated to Anderson, Blount, Campbell, Grainger, Knox, Roane, Sevier and Loudon Counties, and that the advertising notice, of which a copy is attached hereto, was published in said newspaper on the following dates:

10/25/13
11/01/13
11/08/13

November 8, 2013

(Date)  Jeannie Wallace
(Signature)  Legal Notice Supervisor

Sworn to and subscribed before me this Eighth day of November, 2013.

MY COMMISSION EXPIRES: March 6, 2016

NOTARY PUBLIC: Catherine Cale

1717 North Broadway • Knoxville, Tennessee 37917
Phone: (865) 546-3359 • Fax: (865) 546-8878
Attachment 9

Curricula Vitae
DAVID N. ROBINSON, P.E.
President/CEO, The Lotis Engineering Group, P.C.

Years of Experience
17

Education
M.S., Environmental Engineering, University of Colorado at Boulder, 1995
B.S., Civil Engineering, State University of New York at Buffalo, 1994
A.A.S., Architectural Engineering, Alfred State College, 1990

Professional Affiliations
New York State Wireless Association

Professional Registrations
Professional Engineer, New York 2001 (079047)

Certifications
FEMA Public Assistance Program Operations I
OSHA 40 Hr. Hazardous Waste Site Worker Training
Nokia CMPro Cost Control Training

Key Qualifications
David Robinson is a project manager with experience on engineering projects covering a wide range of disciplines and responsibility levels. He has worked as both a project and field engineer designing projects and overseeing construction. More recently, he has been managing multi-discipline, multi-location projects. In this role, David was responsible for managing internal resources, project design, coordinating with subcontractors, quality control, and maintaining the project schedule and budget.

Telecommunications Experience
- SBA, Inc. Acquisition Services, Nationwide, US (2001-2011): Project Manager/Engineer for services relating to the acquisition and development of telecommunications tower sites throughout the United States. Services include property surveys, 2C surveys, Phase I Environmental Site Assessments, NEPA compliance studies, zoning issues, and structural evaluation of existing towers. David has been responsible for managing resources to complete these services on over 7,000 sites in all 50 states, the Caribbean and Canada.
- Global Tower Partners, Inc., Nationwide, US (2004-ongoing): Project Manager/Engineer for services relating to the acquisition and development of telecommunications tower sites throughout the United States. Services include property surveys, 2C surveys, Phase I Environmental Site Assessments, NEPA compliance studies, zoning issues, and structural evaluation of existing towers. David has been responsible for managing resources to complete these services on over 5,000 sites in all 50 states and the Caribbean.
- Tower Ventures, LLC, Nationwide, US (2011-ongoing): Project Manager/Engineer for services relating to the acquisition and development of telecommunications tower sites throughout the United States. Services include Phase I Environmental Site Assessments. David has been responsible for managing resources to complete these services on two telecommunications sites.
- AT&T NexGen, Nationwide, US (2004): Project Engineer for this 16,000-mile long-haul fiber-optic confidential construction project throughout the United States. David was responsible for preparing tax recording documents needed to file taxes for AT&T’s fiber build.
- Nassau County Police Department Land Mobile Radio System Modernization Project (2005-2007): Project Manager for engineering services relating to the upgrade of Nassau County's public safety communication system. Services include site design, construction drawing preparation, property surveys, 1A surveys, Phase I Environmental Site Assessments, NEPA compliance studies, zoning issues, and structural evaluation of existing towers. David has been responsible for managing resources to complete these services on 36 sites throughout the county.

- The City of New York Department of Information Technology and Telecommunications Channel 16 Project (2005-2007): Project Manager for engineering services relating to the design and construction of a conventional/trunked radio system for FDNY and other New York City agencies. Services include site design, construction drawing preparation, property surveys, 1A surveys, Phase I Environmental Site Assessments, NEPA compliance studies, zoning issues, and structural evaluation of existing towers. David has been responsible for managing resources to complete these services on 7 sites in New York City.

- NorthStar Communications, Inc., Florida (2003-2004): Project Manager for services relating to the development of telecommunications tower sites throughout Florida for Nextel. Services included construction drawings, property surveys, 2C surveys, zoning issues, and structural evaluation of existing towers. David was responsible for managing resources to complete these services on over 20 sites in the state of Florida.

**Other Experience**

- BNMC Utilities Relocation, Buffalo, New York (2002): Civil Engineer for the design of utility relocations at Roswell Park in Buffalo. David was responsible for developing construction documents and specifications, as well as providing consulting services throughout the design process. His duties also included preparation of construction cost estimates and submittal review.

- NFTA Metro Bus – Bus Fueling Station Systems Modifications for Dual Fuel, Buffalo, New York (2002): Civil Engineer for the design and preparation of design drawings, specifications and cost estimate for the replacement of an existing single fuel system to that of a dual fuel system.

- New Jersey DPMC Underground Storage Tank Program, New Jersey (1999-2001): Civil Engineer for the design of new aboveground and underground tank fueling systems (including fuel dispensers, leak detection systems, inventory control systems, and concrete tank slabs) for various State Departments in New Jersey. David was responsible for developing design drawings, construction documents and specifications, as well as providing consulting services throughout the construction process. His duties also included creating and maintaining resource-loaded project schedules for project using Primavera® project scheduling software.

- Former Hyatt Clark Industries, Inc. Site, New Jersey (1996-1998): Civil engineer for the preparation for the closure and remediation of the Former GM Industrial site and the construction of a 9-hole golf course recreational facility (including Driving Range, Putting Course, Clubhouse and Maintenance Facilities). David was responsible for the design of the golf course drainage system which included a 5-acre retention pond to be used for irrigation during periods of drought. His duties also included preparing cost estimates for the site closure and subsequent golf course construction, and the modeling and design of the facility entrance and parking.

- Wegmans Food Pharmacy, Buffalo, New York (1998): Civil engineer for the construction of a supermarket on a former industrial site. David was responsible for and the modeling and design of the facility entrance. His duties also included field sampling of excavated soil during construction.
- **USACE-Buffalo District, Cuyahoga River Bulkheads Study, Ohio (1999):** Civil Engineer for the USACE's bulkhead inspection program along nine miles of the Cuyahoga River in Cleveland, Ohio. David was responsible for preparing a structural assessment of bulkhead along the river by inspecting various conditions of the sheet pile (i.e., corrosion levels, settling). His duties also included preparing remediation recommendations and subsequent cost estimates for damaged bulkhead sections.

- **USACE-Buffalo District, Advance Measures Program, New York (1999):** Civil Engineer for the study of high Lake Erie levels on four residential areas. David was responsible for gathering residential home elevations and comparing them to historical rain and lake level data. Based on these comparisons and a detailed cost analysis, recommendations to alleviate local residential flooding, including the design of breakwaters and levees, were made.

- **FEMA Public Assistance Program, Puerto Rico (1998-1999):** Civil Engineer for the inspection of public facilities damaged by Hurricane Georges. David was responsible for gathering field data on hurricane damages, designing mitigation alternatives, and preparing detailed cost analyses of damages.

- **NYCDDC Underground Storage Tank Program, New York (1999-2001):** Civil Engineer for the design of groundwater/soil remediation systems for the cleanup of petroleum-contaminated groundwater and soils. Groundwater remediation systems typically consisted of the design and installation of pneumatic and electric dual pumping systems for the removal of free phase and dissolved phase contamination. Soil remediation systems incorporated the design and installation of soil vapor extraction systems and bioventing systems.

- **Lipari Landfill, New Jersey (1996-1997):** Civil Engineer for offsite remediation work at the Lipari Superfund site. David was responsible for modeling migration rates of contaminants from the Superfund site through surrounding soil strata.