

Water Reclamation District

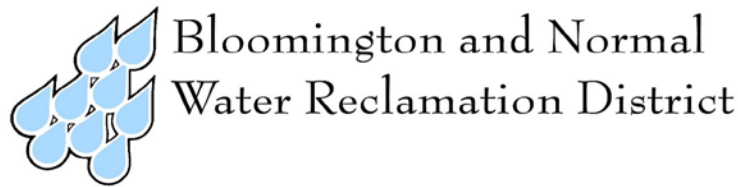
2015 West Oakland Avenue, Bloomington, Illinois 61701

Board Meeting June 13, 2022

MISSION STATEMENT

The Bloomington and Normal Water Reclamation District (BNWRD) shall provide wastewater transportation and treatment services to its constituency so as to provide environmental protection, protection of the public health, a favorable climate for commerce, and enhanced quality of life in co-operation with other community projects. The service area shall remain flexible so as to address future wastewater treatment needs of McLean County. We shall strive to maintain premiere, state-of-the-art services in all aspects of operation through research, development, and application of innovative technologies while providing maximum stewardship of the available land, water, financial and human resources.

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**REGULAR SESSION BOARD OF TRUSTEES MEETING AGENDA
TRUSTEE BOARDROOM
2015 W. OAKLAND AVE., BLOOMINGTON, IL 61701
MONDAY, June 13, 2022, 4:00 P.M.**

1. Roll Call:

2. Public Comment:

3. Recognition/Appointments:

4. Minutes:

A. Approve the Board of Trustee Public Hearing and Regular Session Meeting Minutes of May 16, 2022:

Recommend that the reading of the minutes for the previous Board of Trustee Public Hearing and Regular Session meeting of May 16, 2022, be dispensed with and the minutes approved as printed.

5. Financial Transactions:

Approve the Regular Bills & Financial Reports, Special Bills, Purchases Confirmation, and Authorizations:

Recommend that the Regular Bills & Financial Reports, Special Bills, Purchases Confirmation, and Authorizations be allowed and orders drawn for the various amounts as funds are available.

6. Reports:

A. Presentation of the Operations Report:

Recommend that the Report be accepted a presented.

B. Presentation of the Engineering Project Report:

Recommend that the Report be accepted as presented.

7. Old Business:

(All items under the Consent Agenda are considered to be routine and will be enacted by one motion. There will be no separate discussion of these items unless a Trustee, Executive Director or Corporation Counsel so requests, in which event, the item will be removed from the Consent Agenda and considered in the New Business Agenda, which is Item #10. Waiving the competitive procurement requirements may be approved when the Board of Trustees determines the bid waiver to be in the best interest of the District and the waiver is for construction contracts, professional services, single source, repair and maintenance, services, goods, supplies, materials, and equipment which is authorized by two-thirds of the Board.)

8. Consent Agenda:

A. Approve the Renewal of Property, Liability, Pollution, and Cyber Insurance:

Recommend that the Property and Liability Insurance renewal with Travelers, Pollution Insurance renewal with Navigators Specialty, and Cyber Insurance renewal with Beazley be approved and the Executive Director authorized to sign the necessary documents.



Bloomington and Normal
Water Reclamation District

**REGULAR SESSION BOARD OF TRUSTEES MEETING AGENDA
TRUSTEE BOARDROOM**

2015 W. OAKLAND AVE., BLOOMINGTON, IL 61701

MONDAY, June 13, 2022, 4:00 P.M.

B. Approval of Agreement with Remote Site Communication Systems West Plant Upgrade:

Recommend that the Agreement with Second Sight Systems, LLC be approved in the amount of \$30,118.29 and Staff authorized to sign the necessary documents.

C. Approve Resolution 2022-11 for Change Order 1 to expand the MultiLinQ solution (private fiber network) services by Stratus Networks to the Little Kickapoo Pump Station.:

Recommend that Resolution 2022-11 for Change Order 1 to expand the MultiLinQ solution with Stratus Networks to the Little Kickapoo Pump Station be approved in the amount of \$50,000 with the Executive Director authorized to execute necessary documents.

D. Approve Ordinance 2022-11 for the Updates to Section 8-11, Personal Protective Equipment (PPE):

Recommend that Ordinance 2022-10 for the Updates to Section 8-11, Personal Protective Equipment (PPE) be approved.

E. Adopt Resolution 2022-10 for the Executive Session Minutes from 1985 – 2022 Review:

Recommend that Resolution 2022-10 Reporting the Retention of Executive Session Minutes be adopted.

F. Authorization for The Farnsworth Group to update the North Service Area Regional Pump Station, Forcemain, and Interceptor Location Study:

Recommend that the North Service Area Regional Pump Station, Forcemain, and Interceptor Location Study Update be approved and the Executive Director authorized to sign the necessary documents.

9. Annexations:

10. New Business:

11. Additional Business/Discussion:

12. Executive Session:

13. Adjourn:

MINUTES

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Minutes of the May 16, 2022 BNWRD Budget Public Hearing

The Budget Public Hearing of the Board of Trustees of the Bloomington and Normal Water Reclamation District was called to order at 3:45 p.m., Monday, May 16, 2022, at the Bloomington and Normal Water Reclamation District's West Plant Board Room.

Upon roll call Trustee Brown, Trustee Feid, and Trustee Behrens answered present. In attendance for the District were Timothy L. Ervin, Executive Director; Jake Callahan, Operations and Maintenance Director; Joy Hall, Laboratory Director; Duane Lindeman, Engineering Director; Renee Gooderham, HR Manager, Attorney Elizabeth Megli, Partner with Livingston, Barger, Brandt and Schroeder, LLP; Bob Kohlhase, Principal; Engineer; Shawn Maurer, Engineer, The Farnsworth Group.

Trustee Brown opened the meeting to receive Public Comment. No individuals provided comments during the meeting.

Trustee Brown introduced the Public Hearing for the Fiscal Year 2022-2023 Budget and Appropriation Ordinance. No individuals provided comments during the meeting.

Motion by Trustee Feid adjourned the public hearing for the FY 2020-2021 Budget and Appropriation Ordinance with no comments, objections, or responses from the public, seconded by Trustee Brown and the motion passed viva voce at 4:00 p.m.

Paul Brown, President
Board of Trustees Bloomington and Normal
Water Reclamation District

Jeffrey Feid, Clerk
Board of Trustees Bloomington
and Normal Water Reclamation District

Minutes of May 16, 2022, BNWRD Regular Meeting

The regular monthly meeting of the Board of Trustees of the Bloomington and Normal Water Reclamation District was called to order at 4:00 p.m., Monday, May 16, 2022, at the Bloomington and Normal Water Reclamation District's West Plant Board Room.

Upon roll call Trustee Brown, Trustee Feid, and Trustee Behrens answered present. In attendance for the District were Timothy L. Ervin, Executive Director, Jake Callahan, Operations and Maintenance Director; Joy Hall, Laboratory Director; Duane Lindeman, District Engineer; Renee Gooderham, HR Manager; Jessica Runge, Finance Coordinator; Attorney Elizabeth Megli, Partner with Livingston, Barger, Brandt and Schroeder, LLP; Bob Kohlhase, Principal; and Shawn Maurer, Engineer, The Farnsworth Group.

Trustee Brown opened the meeting to receive Public Comment. No individuals provided comments during the meeting.

Trustee Brown introduced Recognition and Appointments. Rick Strong, Chief Maintenance Foreman was recognized for his 15 years of service to the District. HR Manager Gooderham administered the oath of office to re-appoint Jeffrey K. Feid, Trustee, and Martin F. Behrens, Trustee to fill Trustee Merrit's unexpired term.

Trustee Brown made a motion to re-organize the Board for Fiscal Year (FY) 2022-2023 as follows: President – Paul Brown; and Clerk - Jeffrey K. Feid be approved, seconded by Trustee Feid, and the motion passed.

Trustee Brown asked for a motion that the Regular Session minutes of April 11, 2022, be approved as circulated, Trustee Feid made a motion to accept the Regular minutes, seconded by Trustee Brown, and the motion passed.

Trustee Brown asked for a motion that financial transactions, Regular Bills, and Financial Reports; Approval of Special Bills; Confirmation of Purchases; and Authorizations be approved

Minutes of May 16, 2022, BNWRD Regular Meeting

in their entirety as submitted. Trustee Feid made a motion to accept the financial transactions as presented, seconded by Trustee Brown, and the motion passed.

Trustee Brown introduced the Operations Report. Jake Callahan, Operations and Maintenance Director provided the March 2022 Operations report for the West and Southeast Plants. Both wastewater facilities were in full permit compliance with effluent limits. The West Plant treated an average of 25.9 million gallons per day of wastewater during the month, which is 115.1% of the design average flow. Water analysis leaving the plant showed the monthly average total for suspended solids was 4 mg/L, ammonia nitrogen levels at 0.28 mg/L, carbonaceous biological oxygen demand at 4.1 mg/L, and the daily minimum of dissolved oxygen was 8.9 mg/L. The SE Plant treated an average of 6.2 million gallons per day of wastewater, which is 83% of the design average flow. Water analysis leaving the plant showed the monthly average total for suspended solids was 2.4 mg/L, ammonia nitrogen levels at 0.08 mg/L, carbonaceous biological oxygen demand at 2.0 mg/L, fecal coliform levels were 2 colonies/100 mL, and the daily minimum of dissolved oxygen was 8.2 mg/L.

Director Callahan noted that Staff was working with Stratum Consulting to configure the Infor Enterprise Asset Management (EAM) software. The Infor EAM is the new work order software, Staff training has begun with go-live anticipated on May 16th.

The District partnered with the Ecology Action Center (EAC) on the Tree Corps planting initiative. The Tree Corps planting initiative is a strategy to improve local air quality, and sequester carbon emissions, while increasing habitat for native pollinators and wildlife. Staff assisted around 60 volunteers with planting over 2,000 trees at the West Plant properties on April 23, 2022. The Trustees accepted the report as presented.

Trustee Brown introduced Old Business, the Engineering Project Report. Engineer Maurer

Minutes of May 16, 2022, BNWRD Regular Meeting

stated that River City had completed the seeding and the Maxon valves were two weeks out. Bolts around the cover required tightening.

Engineer Maurer stated the Environmental Impact Determination (PEID) for the facilities' nutrient conversions was waiting on final approval from the Illinois Environmental Protection Agency (IEPA).

The next design progress review with Staff for the SE Plant Biological Nutrient Removal will be on May 26th. Plant capacity strategies have been discussed. The draft report on the West Plant, Plant 1 hydraulic design will be submitted in June 2022. It is anticipated the Little Kickapoo Pump Station Generator and the Caroline St. Grit Chamber bid documents will be ready for bidding in June 2022. The 51" Interceptor Rehabilitation will have the bid documents ready for bidding in July. The Trustees accepted the report as presented.

Trustee Brown introduced the Consent Agenda items (A) through (M):

- A. Authorization to initiate bids for the Fiscal Year 2023 Capital Projects.
- B. Authorization to Purchase Mower for the West Plant Grounds.
- C. Approve the Purchase of the Case Magnum 220 PS AFS C Agricultural Tractor.
- D. Approve the Signatory Listing and Account Authorization Resolution 2022-08.
- E. Approve the Budget and Appropriation Ordinance 2022-07.
- F. Approval of the Proposal from Boward Bros. Farm & Excavating, LLC – Kirk Demolition for the Demolition of the Underground House located at 2002 W. Oakland Ave.
- G. Approve Resolution 2022-09 and Change Order 2 from Stewart Spreading, Inc. for the West Plant's Primary Digester Cleaning Contract.
- H. Approve the Transfer from the SEW to the SEL Fund.
- I. Approve Ordinance 2022-08 to Abate the 2021 Tax Levy for Rivian Automotive.
- J. Approve the Final Payment to Stark Excavating, Inc and Closeout the CSO Lagoon Outfall Improvements.
- K. Approve the Operations Job Description Updates.
- L. Professional Services Agreement to expand MultiLinQ solution (private fiber network) with Stratus Networks to Southeast Plant.
- M. Professional Services Agreement to conduct a Feasibility Study and Phosphorous Discharge Optimization Plan with Baxter and Woodman Engineering.

Minutes of May 16, 2022, BNWRD Regular Meeting

Trustee Feid made a motion to remove item F, Approval of the Proposal from Boward Bros. Farm & Excavating, LLC – Kirk Demolition for the Demolition of the Underground House located at 2002 W. Oakland Ave., and item G, Approve Resolution 2022-09 and Change Order 2 from Stewart Spreading, Inc. for the West Plant’s Primary Digester Cleaning Contract, and move them to New Business, seconded by Trustee Brown, and the motion passed.

Trustee Feid made a motion to accept consent items (A) through (M) except items F and G, seconded by Trustee Brown, and the motion passed.

Trustee Brown called for Annexations. Attorney Megli stated a petition was submitted by Sale Barn Properties, LLC requesting an Annexation for the property located North of West Hamilton Rd. and West of South Main St., consisting of 46 acres more or less. The property is contiguous. Trustee Feid made a motion that the Annexation Petition and Ordinance 2022-09 be approved and the documents recorded, seconded by Trustee Brown, and the motion passed.

Trustee Brown called for Additional Business/Discussion. Executive Director Ervin stated that the Economic Development Council is requesting the District to participate in a property tax abatement for undeveloped property located in the Enterprise Zone. The Enterprise Zone is properties that are underdeveloped in the communities. The tax abatements would be for three to five years on a sliding scale and have performance tied to the agreement, similar to Rivian’s agreement. There would also be restrictions on the type of business that would receive an agreement. Copies of the agreement and Enterprise Zone maps would be provided to the Trustees for their input.

Executive Director Ervin reminded the Trustees that he would be out of the office May 19th – 25th. Director Callahan and Director Lindeman would be available during this timeframe.

Trustee Brown introduced the Approval of the Proposal from Boward Bros. Farm &

Minutes of May 16, 2022, BNWRD Regular Meeting

Excavating, LLC – Kirk Demolition for the Demolition of the Underground House located at 2002 W. Oakland Ave.

Trustee Feid questioned the start and finish timeframe for the demolition. He requested the purchase order contain start and finish timeframes to prevent the demolition from lagging.

Motion by Trustee Feid, seconded by Trustee Brown to Accept Proposal from Boward Bros. Farm & Excavating, LLC -Kirk Demolition for the Demolition of the Underground House located at 2002 W. Oakland Ave., in the amount of \$28,600, and authorize Staff to issue a Purchase Order, and the motion passed.

Trustee Brown introduced Approval of Resolution 2022-09 and Change Order 2 from Stewart Spreading, Inc. for the West Plant's Primary Digester Cleaning Contract.

Trustee Feid noted the cost increase. Executive Director Ervin explained that when Stewart Spreading was cleaning the SE Plant digester they used a belt press that produced very dry sludge. It was determined that for the W. Plant digester cleaning that Stewart Spreading would utilize the belt press to produce the same sludge quality.

Motion by Trustee Feid, seconded by Trustee Behrens that Resolution 2022-09 and Change Order 2 from Stewart Spreading, Inc. for the West Plant's Primary Digester Cleaning Contract be approved and the Executive Director authorized to sign the necessary documents, and the motion passed.

Trustee Brown introduced the Vehicle Lease and Replacement Program with Enterprise Fleet Management, Inc.

Executive Director Ervin noted that a lease program would be a change from past practice. The District has owned approximately 19 light to medium vehicles. In the past 3 years, 2 to 3 vehicles have been replaced annually. Due to manufacturing issues, the Staff is unable to find the

Minutes of May 16, 2022, BNWRD Regular Meeting

vehicles required and the governmental discounts that have been normally given. Sourcewell which is a joint purchasing corporative was considered a resource. During the review Enterprise Fleet Management, Inc. was discovered as a good option for the District. Leasing the light to medium fleet provides the following benefits 1.) the fleet can rotate every 3 years; 2.) trading the vehicles will provide the District with equity; 3.) the mechanic responsible for general vehicle maintenance can be refocused on other areas for the Maintenance Department; 4.) there is no penalty of mileage. Trading in the vehicles ensures the District has vehicles with the latest safety and mileage features. Vehicles will be sold at auction which will generate revenue and this would offset the existing lease payments. General maintenance will be conducted by authorized local mechanics. The District is responsible for fuel, tires, and insurance only. If the vehicle is in an accident Enterprise would assist the District to find a repair shop. It is anticipated that the District will require 11 vehicles for the first year.

Trustee Feid questioned maintenance turnaround time. Executive Director Ervin responded the same day. Trustee Behrens questioned what happens should Staff notice something similar to burning oil. Executive Director Ervin stated that Enterprise would be notified and instruct Staff on where to take the vehicle. Enterprise can order direct from the vehicle manufacturers allowing the District to receive a government discount. Enterprise also has a fuel program that would provide 10% off along with tax rebates, the current program only provides tax rebates. Trustee Behrens questioned the trade-in equity. Executive Director Ervin stated that by trading in the vehicles on an accelerated basis the District would offset costs.

Motion by Trustee Feid, seconded by Trustee Behrens to Approve the Vehicle Lease and Replacement Program with Enterprise Fleet Management, Inc., and the motion passed.

Trustee Brown introduced the Northwater Consultants to develop a scope of work, budget,

Minutes of May 16, 2022, BNWRD Regular Meeting

and schedule for developing the Nutrient Assessment Reduction Plan (NARP).

Director Callahan stated the NARP is a new IEPA operating permit requirement. The IEPA determined that the W. Plant's outfall is upstream from a stream segment to have a risk of eutrophication (ROE). The IEPA's decision to include a NARP is based on downstream water quality monitoring for pH and dissolved oxygen saturation. The NARP is a risk assessment that a consultant conducts. Staff would work with the consultant to assess existing water quality data, identify data gaps, and develop a monitoring strategy for Sugar Creek.

Executive Director Ervin pointed out that the District's W. Plant National Pollutant Discharge Elimination System (NPDES) Permit (IL0027731) states that the District would work with stakeholders. He has reached out to the City of Bloomington, Town of Normal, McLean County, McLean County Soil and Water Conservation, McLean County Farm Bureau, and The Audobahn Society to obtain their potential participation. There is a possibility that the IEPA will place NARP conditions into the stormwater permits. All the agencies working together will assist in producing one community NARP. The collaboration could also lead to a watershed group to study Sugar Creek. If the study determines the need for habitat remediation or infrastructure involvement there could be 319 funding.

Four firms were reviewed and Staff was able to speak to three firms. Rambo did not respond to telephone messages. Northwater was chosen as they currently have a relationship with several of the agencies mentioned, they have experience with streams and lakes in Illinois, and Fred Andes, Environmental Attorney, Barnes & Thornburg has endorsed them.

Trustee Feid questioned if this was related to the previous stream study. Director Callahan stated this study would be separate. The 2 criteria the IEPA looked at to qualify POTW (Publicly Owned Treatment Work) for a NARP were ROE and water quality.

Minutes of May 16, 2022, BNWRD Regular Meeting

Trustee Behrens questioned if the study would be stand-alone. Executive Director Ervin responded the study would be stand-alone and subsequent improvement would be a combination of entities.

Motion by Trustee Feid, seconded by Trustee Behrens to Authorize the Northwest Water Consultants to develop a scope of work, budget, and schedule for developing the Nutrient Assessment Reduction Plan (NARP) and Staff to sign the necessary documents, and the motion passed.

Motion by Trustee Behrens to adjourn the meeting, seconded by Trustee Feid, and the motion passed viva voce at 4:35 p.m.

Paul Brown, President
Board of Trustees Bloomington and Normal
Water Reclamation District

Jeffrey Feid, Clerk
Board of Trustees Bloomington
and Normal Water Reclamation District

FINANCIAL TRANSACTIONS

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BLOOMINGTON AND NORMAL WATER RECLAMATION DISTRICT
Financial Report
May 31, 2022

The District is in the process of transitioning from Sage 100 to Sage Intacct. The reports will appear different from prior month reports and have been designed to be in a format similar to the annual financial statements. Over the next couple of months, Staff will continue to refine the reports to enhance the usefulness and clarity of each financial report.

III. FINANCIAL REPORTS & TRANSACTIONS

A. Approval of Regular Bills and Financial Reports:

1. Refer to Payment History Report and the Financial Report for each fund

B. Approval of Special Bills:

1. Payroll – May 4, 2022 -- \$97,752.00
2. Payroll – May 18, 2022 -- \$99,737.39
3. Payroll – June 1, 2022 -- \$104,118.91

4. Procurement Card -- \$30,373.02

C. Confirmation of the following purchases:

1. n/a

D. Authorizations:

1. **To reinvest the following if not needed for disbursement:**

Any other sums for less than five years duration investments in Certificates of Deposit or Municipal Bonds in the District's General Operating Fund, Equipment Replacement, Short Term Capital, Nutrient Fund, and Southeast Construction Fund.

May 2022

Short and Long Term Investments

The District currently has all investments in cash.

<u>Certificates of Deposit</u>									
Rate	Yield	Due	Purch'd	Institution	Cost	Par	Book Value	Ann'l Int	% of Portfolio
					Total \$	\$ -	\$ -	\$ -	0%

<u>State of Illinois Taxable Municipals</u>									
Rate	Yield	Due	Purch'd	Institution	Cost	Par	Book Value	Ann'l Int	% of Portfolio
					Total \$	\$ -	\$ -	\$ -	0%

<u>Out of State Taxable Revenue Bonds</u>									
Rate	Yield	Due	Purch'd	Institution	Cost	Par	Book Value	Ann'l Int	% of Portfolio
					Total \$	\$ -	\$ -	\$ -	0%

<u>United States Treasuries</u>									
Rate	Yield	Due	Purch'd	Institution	Cost	Par	Book Value	Ann'l Int	% of Portfolio
					Total \$	\$ -	\$ -	\$ -	0%

<u>Federal Agencies</u>									
Rate	Yield	Due	Purch'd	Institution	Cost	Par	Book Value	Ann'l Int	% of Portfolio
					Total \$	\$ -	\$ -	\$ -	0%

Grand Total Long Term					\$ -	\$ -	\$ -	\$ -	0%
Maximum Average Weighted Maturity _____									

BNWRD Payment History Report

Fund ID	Fund	Check #	Payment Amount	Payment Date	Vendor ID	Vendor Name	Bill #	Line Item Amount	GL Account	GL Account Description
10	West Plant	100000	344.03	05/20/2022	V1214	Automatic Data Processing Inc	605506919	344.03	420100	Service Contracts
10	West Plant	100001	291.04	05/20/2022	V1139	BDI Inc	9502456347	291.04	420900	Plant Maintenance Contingency
10	West Plant	100002	7,908.42	05/20/2022	V1071	Birkeys Farm Store Inc	W29075	7,908.42	490000	Plant Maintenance Supplies
10	West Plant	100003	306.00	05/20/2022	V1246	Blunier Implementation Inc	112487-1	306.00	420900	Plant Maintenance Supplies
10	West Plant	100004	41.00	05/20/2022	V1079	Capitol Group Inc	S2190877.001	41.00	420600	Plant Maintenance Supplies
10	West Plant	100005	278.08	05/20/2022	V1168	Clark Baird Smith LLP	15306	278.08	420100	Service Contracts
10	West Plant	100006	2,596.00	05/20/2022	V1126	Ecology Action Center	5196	2,596.00	420400	Public Relations
10	West Plant	100008	9.20	05/20/2022	V1008	Foremost Industrial Tech Inc	91755/FREIGHT	9.20	420600	Supplies
10	West Plant	100011	298.00	05/20/2022	V1060	IL Assoc of Wastewater Agency	5235	298.00	410600	Employee Benefits
10	West Plant	100013	51.40	05/20/2022	V1082	Kirby Risk Electrical Supply Co	S111990996.002	51.40	420900	Plant Maintenance
10	West Plant	100014	2,140.00	05/20/2022	V1080	Livingston, Barger, Brandt & Schroeder LLP	192623	140.00	420100	Service Contracts
10	West Plant	100014	2,140.00	05/20/2022	V1080	Livingston, Barger, Brandt & Schroeder LLP	192660	2,000.00	420100	Service Contracts
10	West Plant	100015	900.00	05/20/2022	V1247	Schroeder LLP Martin Industrial Site Services LLC	1131	900.00	420900	Plant Maintenance
10	West Plant	100016	64.94	05/20/2022	V1083	Motion Industries Inc	IL66-00182536	64.94	420600	Supplies
10	West Plant	100017	163.46	05/20/2022	V1043	NAPA Auto Parts MPEC	658488	163.46	420900	Plant Maintenance
10	West Plant	100019	119.97	05/20/2022	V1187	Office Depot Inc	238960425001	119.97	420600	Supplies
10	West Plant	100020	9.00	05/20/2022	V1098	Parkway Auto Laundry Inc	97/APR22	9.00	420900	Plant Maintenance
10	West Plant	100021	75.00	05/20/2022	V1239	Wageworks Inc	0422-TR95862	75.00	420100	Service Contracts
10	West Plant	100022	528.63	05/20/2022	V1024	Wherry Machine and Welding Co	151207	59.04	420600	Supplies
10	West Plant	100022	528.63	05/20/2022	V1024	Wherry Machine and Welding Co	151211	60.20	420600	Supplies
10	West Plant	100022	528.63	05/20/2022	V1024	Wherry Machine and Welding Co	151274	233.42	420900	Plant Maintenance
10	West Plant	100022	528.63	05/20/2022	V1024	Wherry Machine and Welding Co	151415	108.00	420600	Supplies
10	West Plant	100022	528.63	05/20/2022	V1024	Wherry Machine and Welding Co	151504	67.97	420600	Supplies
10	West Plant	100024	71.29	05/31/2022	V1074	A T & T Company Inc	0192318021001/JUN22	71.29	430000	Utilities

**BNWRD
Payment History Report**

Fund ID	Fund	Check #	Payment Amount	Payment Date	Vendor ID	Vendor Name	Bill #	Line Item Amount	GL Account	GL Account Description
10	West Plant	100030	319.86	05/31/2022	V1139	BDI Inc	9502462917	319.86	420900	Plant Maintenance
10	West Plant	100052	1,540.00	05/31/2022	V1196	Getz Fire Equipment Inc	12-570754	234.00	420100	Service Contracts
10	West Plant	100052	1,540.00	05/31/2022	V1196	Getz Fire Equipment Inc	12-570565	147.75	420100	Service Contracts
10	West Plant	100052	1,540.00	05/31/2022	V1196	Getz Fire Equipment Inc	12-570564	719.75	420100	Service Contracts
10	West Plant	100052	1,540.00	05/31/2022	V1196	Getz Fire Equipment Inc	12-570566	290.75	420100	Service Contracts
10	West Plant	100053	864.81	05/31/2022	V1011	Grainger W W Inc	9297119936	864.81	420900	Plant Maintenance
10	West Plant	100064	309.74	05/31/2022	V1014	Martin Equip of IL Inc	632905	309.74	420900	Plant Maintenance
10	West Plant	100081	572.00	05/31/2022	V1066	The Illinois Chamber	152156	572.00	420500	Plant Maintenance
10	West Plant	100084	755.00	05/31/2022	V1271	Vital Education & Supply Inc	22-0673	755.00	410800	Dues, Fees & Subscriptions
10	West Plant	AC May	186.00	05/31/2022	V1248	Heartland Bank & Trust	MEMO/GEN-MAY	186.00	430100	Fees
10	West Plant	Ameren	394.35	05/18/2022	V1119	Ameren IP	01139-06097/AP R22	394.35	430000	Utilities
10	West Plant	Ameren	786.13	05/09/2022	V1119	Ameren IP	2243381290/AP R22	786.13	430000	Utilities
10	West Plant	Ameren2	331.66	05/27/2022	V1119	Ameren IP	1020155028/AP R22	114.12	430000	Utilities
10	West Plant	Ameren2	331.66	05/27/2022	V1119	Ameren IP	0129107072/AP R22	168.09	430000	Utilities
10	West Plant	Ameren2	331.66	05/27/2022	V1119	Ameren IP	1031251028/AP R22	49.45	430000	Utilities
10	West Plant	BCBS JUNE	50,093.26	05/19/2022	V1081	Blue Cross/Blue Shield of IL	JUNE2022	7,252.04	410600	Employee Benefits
10	West Plant	BCBS JUNE	50,093.26	05/19/2022	V1081	Blue Cross/Blue Shield of IL	JUNE2022	11,726.05	410600	Employee Benefits
10	West Plant	BCBS JUNE	50,093.26	05/19/2022	V1081	Blue Cross/Blue Shield of IL	JUNE2022	2,352.65	410600	Employee Benefits
10	West Plant	BCBS JUNE	50,093.26	05/19/2022	V1081	Blue Cross/Blue Shield of IL	JUNE2022	16,041.45	410600	Employee Benefits
10	West Plant	BCBS JUNE	50,093.26	05/19/2022	V1081	Blue Cross/Blue Shield of IL	JUNE2022	39.30	410600	Employee Benefits
10	West Plant	BCBS JUNE	50,093.26	05/19/2022	V1081	Blue Cross/Blue Shield of IL	JUNE2022	12.54	410600	Employee Benefits
10	West Plant	BCBS JUNE	50,093.26	05/19/2022	V1081	Blue Cross/Blue Shield of IL	JUNE2022	66.02	410600	Employee Benefits
10	West Plant	BCBS JUNE	50,093.26	05/19/2022	V1081	Blue Cross/Blue Shield of IL	JUNE2022	10.02	410600	Employee Benefits
10	West Plant	Circle K	823.86	05/05/2022	V1148	Fleet Services - Circle K Inc	80629187	823.86	430000	Utilities
10	West Plant	COB - Water	1,456.88	05/18/2022	V1101	City of Bloomington- Water	433165	8.30	430000	Utilities
10	West Plant	COB - Water	1,456.88	05/18/2022	V1101	City of Bloomington- Water	433516	1,357.57	430000	Utilities

BNWRD Payment History Report

Fund ID	Fund	Check #	Payment Amount	Payment Date	Vendor ID	Vendor Name	Bill #	Line Item Amount	GL Account	GL Account Description
10	West Plant	COB - Water	1,456.88	05/18/2022	V1101	City of Blooming-	434984	10.35	430000	Utilities
10	West Plant	COB - Water	1,456.88	05/18/2022	V1101	City of Blooming-	433351	21.79	430000	Utilities
10	West Plant	COB - Water	1,456.88	05/18/2022	V1101	City of Blooming-	433316	58.87	430000	Utilities
10	West Plant	COB Water1	36.27	05/16/2022	V1101	City of Blooming-	431330	36.27	430000	Utilities
10	West Plant	Comcast	156.85	05/19/2022	V1165	Comcast Cable	0893379/MAY22	156.85	430000	Utilities
10	West Plant	Constellation	360.34	05/03/2022	V1189	Constellation	61868862801	360.34	430000	Utilities
10	West Plant	Frontier	2,11.96	05/27/2022	V1149	New Energy Inc	062117-5/JUN22	95.98	430000	Utilities
10	West Plant	Frontier	2,11.96	05/27/2022	V1149	Frontier	060917-5/JUN22	115.98	430000	Utilities
10	West Plant	Frontier	1,265.20	05/18/2022	V1149	Frontier	224/159-1068/A	958.38	430000	Utilities
10	West Plant	GuardianJune	4,636.34	05/19/2022	V1241	Guardian	00556713/JUN	526.45	410600	Employee Bene-
10	West Plant	GuardianJune	4,636.34	05/19/2022	V1241	Guardian	00556713/JUN	359.29	410600	Employee Bene-
10	West Plant	GuardianJune	4,636.34	05/19/2022	V1241	Guardian	00556713/JUN	258.31	410600	Employee Bene-
10	West Plant	GuardianJune	4,636.34	05/19/2022	V1241	Guardian	00556713/JUN	122.61	410600	Employee Bene-
10	West Plant	IMRF Pen	5,017.63	05/27/2022	V1056	IMRF	RANDY PEN-	5,017.63	410600	Employee Bene-
10	West Plant	MidAmerican	1,686.19	05/04/2022	V1237	MidAmerican En-	11411527	1,686.19	430000	Utilities
10	West Plant	MidAmerican2	817.94	05/19/2022	V1237	MidAmerican En-	11425144	817.94	430000	Utilities
10	West Plant	MidAmerican3	52,816.08	05/27/2022	V1237	MidAmerican En-	11426713	52,816.08	430000	Utilities
10	West Plant	Nicor	91.20	05/18/2022	V1258	Nicor	39176616413/M	91.20	430000	Utilities
10	West Plant	Republic	3,174.03	05/27/2022	V1177	Republic Ser-	0368-001027450	804.07	430100	Fees
10	West Plant	Reversed -	(75.00)	05/20/2022	V1239	Wageworks Inc	0422-TR95862	75.00	420100	Service Con-
10	West Plant	TASC Fee	65.00	05/27/2022	V1243	TASC (Total Ad-	IN2402999	65.00	420100	Service Con-
10	West Plant	Town of Normal	18.40	05/03/2022	V1141	Administrative Ser-	ices Corp	4.60	430000	Utilities
10	West Plant	Town of Normal	18.40	05/03/2022	V1141	Town of Normal	-60609-29882/AP	13.80	430000	Utilities
10	West Plant	Verizon	1,948.47	05/04/2022	V1113	Water Bills Only	R22	761.65	430000	Utilities
10	West Plant	Verizon	1,948.47	05/04/2022	V1113	Town of Normal	-60609-29846/AP	157.54	430000	Utilities
10	West Plant	Verizon	1,948.47	05/04/2022	V1113	Water Bills Only	R22	305.08	430000	Utilities
10	West Plant	Verizon	1,948.47	05/04/2022	V1113	Verizon Wireless	9904037014	615.84	430000	Utilities
10	West Plant	Verizon	1,948.47	05/04/2022	V1113	Verizon Wireless	9904037014	75.00	420100	Service Con-
10	West Plant	Voided - 100021	(75.00)	05/20/2022	V1239	Wageworks Inc	0422-TR95862			

BNWRD Payment History Report

Fund ID	Fund	Check #	Payment Amount	Payment Date	Vendor ID	Vendor Name	Bill #	Line Item	GL Account	GL Account Description
10	West Plant		75.00	05/25/2022	V1239	Wageworks Inc	0422-TR95862	75.00	420100	Service Contracts
Sum for 10			532,858.88							
1001	District Operating	100012	98.39	05/20/2022	V1259	Josh Stevens	STEVENS RE-IMBURSEMENT	98.39	410600	Employee Benefits
1001	District Operating	100090	1,200.00	05/31/2022	V1001	City of Blooming-9375	ton -BilledSV	1,200.00	420100	Service Contracts
1001	District Operating	BCBS JUNE	50,093.26	05/19/2022	V1081	Blue Cross/Blue Shield of IL	JUNE2022	4,580.44	210000	Payroll Liabilities
1001	District Operating	BCBS JUNE	50,093.26	05/19/2022	V1081	Blue Cross/Blue Shield of IL	JUNE2022	5,030.61	210000	Payroll Liabilities
1001	District Operating	GuardianJune	4,636.34	05/19/2022	V1241	Guardian	00556713/JUN	979.51	210000	Payroll Liabilities
1001	District Operating	GuardianJune	4,636.34	05/19/2022	V1241	Guardian	00556713/JUN	239.52	210000	Payroll Liabilities
1001	District Operating	GuardianJune	4,636.34	05/19/2022	V1241	Guardian	00556713/JUN	289.39	210000	Payroll Liabilities
1001	District Operating	GuardianJune	4,636.34	05/19/2022	V1241	Guardian	00556713/JUN	58.88	210000	Payroll Liabilities
1001	District Operating	GuardianJune	4,636.34	05/19/2022	V1241	Guardian	00556713/JUN	1,614.80	210000	Payroll Liabilities
1001	District Operating	PCard	26,041.96	05/05/2022	V1106	Commrc-P/C	22-Apr	26,041.96	230200	P-Card Suspense
1001	District Operating	TASC	358.80	05/05/2022	V1243	TASC (Total Administrative Services Corp	MAY2022 PR#1	358.80	210000	Payroll Liabilities
1001	District Operating	TASC May	358.80	05/19/2022	V1243	TASC (Total Administrative Services Corp	MAY2022 PR#2	358.80	210000	Payroll Liabilities
Sum for 1001			151,426.17							
11	West Plant_EQF	100008	7,550.00	05/31/2022	V1213	Fab Tech Wastewater Solutions LLC	22023	7,550.00	600100	Permit Compliance
11	West Plant_EQF	100009	7,919.01	05/31/2022	V1006	Farnsworth Group Inc	233761	7,919.01	600700	Computers
11	West Plant_EQF	100010	2,352.49	05/31/2022	V1140	G A Rich & Sons Inc	1472920	2,352.49	600300	Facility_EQF
11	West Plant_EQF	100011	2,659.19	05/31/2022	V1047	Gasvoda & Associates Inc	INV2201018	2,659.19	600100	Permit Compliance
11	West Plant_EQF	100019	4,045.11	05/31/2022	V1123	Trojan Technologies	SLS/10320787	4,045.11	600400	Disinfection
11	West Plant_EQF	100022	103,950.00	05/31/2022	V1219	Union Roofing Co Inc	511793	103,950.00	600300	Facility_EQF
Sum for 11			128,475.80							
20	Southeast Plant	100007	1,999.39	05/20/2022	V1089	Evergreen FS Inc	10010947	1,999.39	430000	Utilities
20	Southeast Plant	100009	474.99	05/20/2022	V1011	Grainger W W Inc	9312893705	278.32	420600	Supplies
20	Southeast Plant	100009	474.99	05/20/2022	V1011	Grainger W W Inc	9311793740	196.67	420600	Supplies

**BNWRD
Payment History Report**

Fund ID	Fund	Check #	Payment Amount	Payment Date	Vendor ID	Vendor Name	Bill #	Line Item Amount	GL Account	GL Account Description
20	Southeast Plant	100010	175.58	05/20/2022	V1218	Hicksgas LLC Inc	HG-023589	175.58	420100	Service Con- tracts
20	Southeast Plant	100018	62.04	05/20/2022	V1118	Nord Outdoor Power Corp	377961	62.04	420900	Plant Mainte- nance
20	Southeast Plant	100052	1,540.00	05/31/2022	V1196	Getz Fire Equip- ment Inc	12-570567	147.75	420100	Service Con- tracts
20	Southeast Plant	BCBS JUNE	50,093.26	05/19/2022	V1081	Blue Cross/Blue Shield of IL	JUNE2022	1,060.46	410600	Employee Bene- fits
20	Southeast Plant	BCBS JUNE	50,093.26	05/19/2022	V1081	Blue Cross/Blue Shield of IL	JUNE2022	1,921.68	410600	Employee Bene- fits
20	Southeast Plant	BTPWD	638.00	05/18/2022	V1122	Bloomington Township PWD	1950/MAY22	638.00	430000	Utilities
20	Southeast Plant	COB Water	229.61	05/27/2022	V1101	City of Bloomington- Water	439382	229.61	430000	Utilities
20	Southeast Plant	Corn Belt	32,422.52	05/05/2022	V1099	Corn Belt Energy Inc	1649301/APR22	696.64	430000	Utilities
20	Southeast Plant	Corn Belt	32,422.52	05/05/2022	V1099	Corn Belt Energy Inc	2326800/APR22	31,725.88	430000	Utilities
20	Southeast Plant	Frontier	1,265.20	05/18/2022	V1149	Frontier	112304-6/MAY2 2	306.82	430000	Utilities
20	Southeast Plant	GuardianJune	4,636.34	05/19/2022	V1241	Guardian	00556713/JUN	74.81	410600	Employee Bene- fits
20	Southeast Plant	GuardianJune	4,636.34	05/19/2022	V1241	Guardian	00556713/JUN	112.77	410600	Employee Bene- fits
20	Southeast Plant	MidAmerican1	3,501.47	05/18/2022	V1237	MidAmerican En- ergy Services	11422424	3,501.47	430000	Utilities
20	Southeast Plant	Republic	3,174.03	05/27/2022	V1177	Republic Ser- vices Inc #368	0368-001027450	2,369.96	430100	Fees
20	Southeast Plant	Verizon	1,948.47	05/04/2022	V1113	Verizon Wireless	9904037014	108.36	430000	Utilities
Sum for 202001			189,788.01							
2001	Equipment Re- placement	100000	16,720.55	05/20/2022	V1008	Foremost Indus- trial Tech Inc	0091857	16,720.55	600600	Pumps
2001	Equipment Re- placement	100001	16,392.70	05/20/2022	V1261	Altec Products	PSG-00015116	2,587.50	600700	Computers
2001	Equipment Re- placement	100001	16,392.70	05/20/2022	V1261	Altec Products	SOF- 0000012797	13,805.20	600700	Computers
2001	Equipment Re- placement	100002	9,367.77	05/20/2022	V1140	G A Rich & Sons Inc	1472871	5,067.77	490000	Contingency
2001	Equipment Re- placement	100002	9,367.77	05/20/2022	V1140	G A Rich & Sons Inc	1472870	4,300.00	600300	Facility_EQF
2001	Equipment Re- placement	100004	16,223.10	05/20/2022	V1253	Stratum Consult- ing Partners Inc	8900	6,262.50	600700	Computers
2001	Equipment Re- placement	100004	16,223.10	05/20/2022	V1253	Stratum Consult- ing Partners Inc	8884	9,960.60	600700	Computers
2001	Equipment Re- placement	100005	2,868.75	05/31/2022	V1261	Altec Products	PSG-00015170	2,868.75	600700	Computers
2001	Equipment Re- placement	100006	4,694.87	05/31/2022	V1176	BKD LLP	BK01589218	4,694.87	600700	Computers
2001	Equipment Re- placement	100007	3,920.97	05/31/2022	V1105	DMI Technology Group Inc	50550	3,920.97	600700	Computers

BNWRD Payment History Report

Fund ID	Fund	Check #	Payment Amount	Payment Date	Vendor ID	Vendor Name	Bill #	Line Item Amount	GL Account	GL Account Description
2001	Equipment Re- placement	100012	6,504.65	05/31/2022	V1245	General Pump & Machinery Inc	P-222233466	6,504.65	600600	Pumps
2001	Equipment Re- placement	100013	6,977.84	05/31/2022	V1011	Grainger W W Inc	9323781444	2,076.24	600000	Safety_EQF
2001	Equipment Re- placement	100013	6,977.84	05/31/2022	V1011	Grainger W W Inc	9319376845	2,420.80	600000	Safety_EQF
2001	Equipment Re- placement	100013	6,977.84	05/31/2022	V1011	Grainger W W Inc	9308976654	588.30	600000	Safety_EQF
2001	Equipment Re- placement	100013	6,977.84	05/31/2022	V1011	Grainger W W Inc	9318238988	1,797.62	600000	Safety_EQF
2001	Equipment Re- placement	100015	29,458.33	05/31/2022	V1268	Hexagon EAM Holdings LLC	101409-US0HX	29,458.33	600700	Computers
2001	Equipment Re- placement	100016	11,206.40	05/31/2022	V1262	MAS Rigging Inc	21-341001	11,206.40	600400	Disinfection
2001	Equipment Re- placement	100017	35,223.95	05/31/2022	V1083	Motion Industries Inc	IL66-00183243	35,223.95	490000	Contingency
2001	Equipment Re- placement	100021	1,166.42	05/31/2022	V1269	XPOLogistics	141-176044	1,166.42	490000	Contingency
			223,643.39							
21										
21	Southeast Plant_EQF	100003	6,494.00	05/20/2022	V1247	Martin Industrial Site Services LLC	1132	5,464.00	600200	Process Efficiency
21	Southeast Plant_EQF	100003	6,494.00	05/20/2022	V1247	Martin Industrial Site Services LLC	1133	1,030.00	600200	Process Efficiency
21	Southeast Plant_EQF	100013	6,977.84	05/31/2022	V1011	Grainger W W Inc	9233012427	94.88	600300	Facility_EQF
21	Southeast Plant_EQF	100014	9,835.00	05/31/2022	V1076	Hermes Service & Sales Inc	9915727	9,835.00	600300	Facility_EQF
21	Southeast Plant_EQF	100018	7,800.00	05/31/2022	V1253	Stratum Consulting Partners Inc	8929	7,800.00	600700	Computers
21	Southeast Plant_EQF	100020	3,564.65	05/31/2022	V1137	William Masters Inc	19645-1	3,564.65	600300	Facility_EQF
			41,165.49							
3001										
3001	Short Term Capital	100000	3,193.24	05/20/2022	V1137	William Masters Inc	3193.24	3,193.24	599999	Capital History
3001	Short Term Capital	100001	3,368.21	05/31/2022	V1006	Farnsworth Group Inc	233755	2,378.21	490000	Contingency
3001	Short Term Capital	100001	3,368.21	05/31/2022	V1006	Farnsworth Group Inc	233756	990.00	490000	Contingency
3001	Short Term Capital	100002	1,718.88	05/31/2022	V1132	LAI Ltd Inc	22-19203	1,718.88	500500	Structures - Southeast
3001	Short Term Capital	100003	1,160.00	05/31/2022	V1080	Livingston, Barger, Brandt & Schroeder LLP	192661	1,160.00	599999	Capital History
3001	Short Term Capital	100004	349.20	05/31/2022	V1039	McLean County Collector/Treas	21-07-276-012/2 021	349.20	490000	Contingency
3001	Short Term Capital	100005	7,985.39	05/31/2022	V1023	Walker Process Equipment Inc	INV022465	7,985.39	500400	Structures - West
3001	Short Term Capital	100006	4,163.30	05/31/2022	V1039	McLean County	21-07-252-002/2	4,163.30	490000	Contingency

BNWRD Payment History Report

Fund ID	Fund	Check #	Payment Amount	Payment Date	Vendor ID	Vendor Name	Bill #	Line Item Amount	GL Account	GL Account Description
3001	Short Term Capital	100007	2,100.34	05/31/2022	V1039	Collector/Treas McLean County	021 21-07-276-030/2	2,100.34	490000	Contingency
3001	Short Term Capital	100008	3,189.37	05/31/2022	V1006	Collector/Treas Farnsworth Group Inc	022 233759	3,189.37	500000	Capital Design
Sum for 3001			30,596.14							
4001	Nutrient	100000	4,000.00	05/20/2022	V1263	McGuireWoods LLP	92607190	4,000.00	700200	Lobbyist
4001	Nutrient	100001	5,645.00	05/20/2022	V1234	NewGen Strategies & Solutions LLC	13593	5,645.00	700000	Design & Studies
4001	Nutrient	100002	68,611.38	05/31/2022	V1006	Farnsworth Group Inc	233757	57,116.38	700000	Design & Studies
4001	Nutrient	100002	68,611.38	05/31/2022	V1006	Farnsworth Group Inc	233758	11,495.00	700000	Design & Studies
4001	Nutrient	100003	16,565.88	05/31/2022	V1274	Nelson Land Management LLC	1368	16,565.88	490000	Contingency
4001	Nutrient	100004	5,000.00	05/31/2022	V1253	Stratum Consulting Partners Inc	8930	5,000.00	700000	Design & Studies
Sum for 4001			168,433.64							
5001	IEPA Loan Retirement	#15	23,840.59	05/20/2022	V1272	IL Environmental Protection Agency	L17-3118#15	23,840.59	480000	IL EPA Loan Payment
Sum for 5001			23,840.59							
6001	Southeast WWTP	MAY2022	1,200,000.00	05/18/2022	V1264	SE Loan Fund	MAY2022 Loan Transfer	1,200,000.00	460600	Transfer To Southeast Loan Fund
Sum for 6001			1,200,000.00							
7001	SEWWTP Retirement	Loan #37	1,248,419.99	05/31/2022	V1272	IL Environmental Protection Agency	L17-1611#37	1,248,419.99	480000	IL EPA Loan Payment
Sum for 7001			1,248,419.99							
Sum Total			3,938,648.10							



District Operating

BNWRD Balance Sheet

	Year To Date 05/31/2022 <small>Current Year Balance</small>	Prior Year To Date 05/31/2021 <small>Prior Year</small>	<small>Summary</small>
Assets			
Current Assets			
Cash and Cash Equivalents	3,683,303.73	2,886,728.42	796,575.31
Accounts Receivable, Net	1,306,535.38	2,138,307.51	(831,772.13)
Other Current Assets	1,244,875.61	1,383,021.95	(138,146.34)
Total Current Assets	6,234,714.72	6,408,057.88	(173,343.16)
Long-term Assets			
Property & Equipment	150,412,731.13	145,979,467.49	4,433,263.64
Other Long-term Assets	3,727,239.29	3,727,239.29	0.00
Total Long-term Assets	154,139,970.42	149,706,706.78	4,433,263.64
Total Assets	160,374,685.14	156,114,764.66	4,259,920.48
Liabilities and Net Assets			
Liabilities			
Short-term Liabilities			
Accounts Payable	302,604.07	635,992.30	(333,388.23)
Accrued Liabilities	8,359.34	8,359.34	0.00
Withholding Tax Payable	223,199.95	178,834.35	44,365.60
Other Short-term Liabilities	990,103.00	1,135,701.34	(145,598.34)
Total Short-term Liabilities	1,524,266.36	1,958,887.33	(434,620.97)
Long Term Liabilities			
Other Long-term Liabilities	1,848,211.40	1,848,211.40	0.00
Total Long Term Liabilities	1,848,211.40	1,848,211.40	0.00
Total Liabilities	3,372,477.76	3,807,098.73	(434,620.97)
Net Assets	157,002,207.38	152,307,665.93	4,694,541.45
Total Liabilities and Net Assets	160,374,685.14	156,114,764.66	4,259,920.48



**District Operating
Statement of Activities - Actual vs Budget**
Year To Date 05/31/2022

	Actual	Budget	Budget Diff
Operating Revenue			
Revenue - Other	1,039,779.23	1,081,044.00	41,264.77
Revenue - Services	764,256.84	9,977,300.00	9,213,043.16
Rental Income	755.00	9,100.00	8,345.00
Total Operating Revenue	1,804,791.07	11,067,444.00	9,262,652.93
Expenditures			
Personnel			
Salary and Wages	309,951.72	2,530,400.00	2,220,448.28
PR Benefits	12,556.53	816,070.00	803,513.47
PR Taxes	22,942.72	176,000.00	153,057.28
Total Personnel	345,450.97	3,522,470.00	3,177,019.03
Occupancy	0.00	2,500.00	2,500.00
Professional Fees	111,352.31	1,501,824.00	1,390,471.69
General and Administrative Expenses	146,978.11	6,040,650.00	5,893,671.89
Total Expenditures	603,781.39	11,067,444.00	10,463,662.61
Change In Net Assets	1,201,009.68	0.00	(1,201,009.68)
+ Net Assets - Beginning	155,801,197.70	0.00	(1,201,009.68)
Net Assets - Ending	157,002,207.38	0.00	(2,402,019.36)



Equipment Replacement

BNWRD Balance Sheet

	Year To Date 05/31/2022	Prior Year To Date 05/31/2021	Summary
	Current Year Balance	Prior Year	
Assets			
Current Assets			
Cash and Cash Equivalents	4,393,077.52	3,719,908.01	673,169.51
Accounts Receivable, Net	234,081.50	122,143.75	111,937.75
Other Current Assets	980,374.65	889,657.26	90,717.39
Total Current Assets	<u>5,607,533.67</u>	<u>4,731,709.02</u>	<u>875,824.65</u>
Total Assets	<u>5,607,533.67</u>	<u>4,731,709.02</u>	<u>875,824.65</u>
Liabilities and Net Assets			
Liabilities			
Short-term Liabilities			
Accounts Payable	(3,589.54)	9,134.13	(12,723.67)
Other Short-term Liabilities	740,844.00	702,317.80	38,526.20
Total Short-term Liabilities	<u>737,254.46</u>	<u>711,451.93</u>	<u>25,802.53</u>
Total Liabilities	<u>737,254.46</u>	<u>711,451.93</u>	<u>25,802.53</u>
Net Assets	<u>4,870,279.21</u>	<u>4,020,257.09</u>	<u>850,022.12</u>
Total Liabilities and Net Assets	<u>5,607,533.67</u>	<u>4,731,709.02</u>	<u>875,824.65</u>



Equipment Replacement Statement of Activities - Actual vs Budget

Year To Date 05/31/2022

	Actual	Budget	Budget Diff
Operating Revenue			
Revenue - Other			
Interest Income	653.85	250.00	(403.85)
Property Tax	0.00	740,844.00	740,844.00
Illinois Replacement Tax	234,081.50	375,000.00	140,918.50
Transfer From General Fund	0.00	300,000.00	300,000.00
Total Revenue - Other	234,735.35	1,416,094.00	1,181,358.65
Total Operating Revenue	234,735.35	1,416,094.00	1,181,358.65
Expenditures			
Professional Fees	275.60	0.00	(275.60)
General and Administrative Expenses			
Facilities			
Safety_EQF	6,882.96	120,000.00	113,117.04
Permit Compliance	10,209.19	217,000.00	206,790.81
Process Efficiency	6,494.00	43,000.00	36,506.00
Facility_EQF	124,002.14	420,000.00	295,997.86
Disinfection	15,251.51	140,000.00	124,748.49
Pumps	23,225.20	140,000.00	116,774.80
Computers	89,277.73	435,000.00	345,722.27
Vehicles	0.00	367,000.00	367,000.00
Interceptor Sewers	0.00	210,000.00	210,000.00
Total Facilities	275,342.73	2,092,000.00	1,816,657.27
Other Expenses			
Contingency	41,455.14	155,000.00	113,544.86
Total Other Expenses	41,455.14	155,000.00	113,544.86
Total General and Administrative Expenses	316,797.87	2,247,000.00	1,930,202.13
Total Expenditures	317,073.47	2,247,000.00	1,929,926.53
Change In Net Assets	(82,338.12)	(830,906.00)	(748,567.88)
+ Net Assets - Beginning	4,952,617.33	0.00	82,338.12
Net Assets - Ending	4,870,279.21	(830,906.00)	(666,229.76)



Short Term Capital

BNWRD Balance Sheet

	Year To Date 05/31/2022	Prior Year To Date 05/31/2021	
	<u>Current Year Balance</u>	<u>Prior Year</u>	<u>Summary</u>
Assets			
Current Assets			
Cash and Cash Equivalents	3,529,671.94	5,007,609.33	(1,477,937.39)
Accounts Receivable, Net	880,261.04	71,845.10	808,415.94
Other Current Assets	1,084,070.00	1,012,098.00	71,972.00
Total Current Assets	<u>5,494,002.98</u>	<u>6,091,552.43</u>	<u>(597,549.45)</u>
Total Assets	<u>5,494,002.98</u>	<u>6,091,552.43</u>	<u>(597,549.45)</u>
Liabilities and Net Assets			
Liabilities			
Short-term Liabilities			
Accounts Payable	0.00	9,919.65	(9,919.65)
Other Short-term Liabilities	1,084,574.75	1,010,964.30	73,610.45
Total Short-term Liabilities	<u>1,084,574.75</u>	<u>1,020,883.95</u>	<u>63,690.80</u>
Total Liabilities	<u>1,084,574.75</u>	<u>1,020,883.95</u>	<u>63,690.80</u>
Net Assets	<u>4,409,428.23</u>	<u>5,070,668.48</u>	<u>(661,240.25)</u>
Total Liabilities and Net Assets	<u>5,494,002.98</u>	<u>6,091,552.43</u>	<u>(597,549.45)</u>



**Short Term Capital
Statement of Activities - Actual vs Budget**
Year To Date 05/31/2022

	Actual	Budget	Budget Diff
Operating Revenue			
Revenue - Other			
Interest Income	868.39	1,500.00	631.61
Property Tax	0.00	1,084,070.00	1,084,070.00
Transfer From General Fund	0.00	800,000.00	800,000.00
Insurance Proceeds	880,261.04	0.00	(880,261.04)
Total Revenue - Other	<u>881,129.43</u>	<u>1,885,570.00</u>	<u>1,004,440.57</u>
Total Operating Revenue	<u>881,129.43</u>	<u>1,885,570.00</u>	<u>1,004,440.57</u>
Expenditures			
Professional Fees	144.45	0.00	(144.45)
General and Administrative Expenses			
Facilities			
Capital Design	3,189.37	0.00	(3,189.37)
Interceptor Sewer Projects	0.00	175,000.00	175,000.00
Structures - West	7,985.39	1,915,641.00	1,907,655.61
Structures - Southeast	1,718.88	125,000.00	123,281.12
Pump Stations	0.00	265,000.00	265,000.00
Grounds - Southeast	0.00	40,000.00	40,000.00
Other Capital Projects	0.00	120,000.00	120,000.00
Capital History	4,353.24	0.00	(4,353.24)
Total Facilities	<u>17,246.88</u>	<u>2,640,641.00</u>	<u>2,623,394.12</u>
Other Expenses			
Contingency	9,981.05	100,000.00	90,018.95
Total Other Expenses	<u>9,981.05</u>	<u>100,000.00</u>	<u>90,018.95</u>
Total General and Administrative Expenses	<u>27,227.93</u>	<u>2,740,641.00</u>	<u>2,713,413.07</u>
Total Expenditures	<u>27,372.38</u>	<u>2,740,641.00</u>	<u>2,713,268.62</u>
Change In Net Assets	853,757.05	(855,071.00)	(1,708,828.05)
+ Net Assets - Beginning	3,555,671.18	0.00	(853,757.05)
Net Assets - Ending	<u>4,409,428.23</u>	<u>(855,071.00)</u>	<u>(2,562,585.10)</u>



Nutrient

BNWRD Balance Sheet

	Year To Date 05/31/2022	Prior Year To Date 05/31/2021	
	Current Year Balance	Prior Year	Summary
Assets			
Current Assets			
Cash and Cash Equivalents	5,436,759.54	4,169,387.92	1,267,371.62
Total Current Assets	<u>5,436,759.54</u>	<u>4,169,387.92</u>	<u>1,267,371.62</u>
Total Assets	<u>5,436,759.54</u>	<u>4,169,387.92</u>	<u>1,267,371.62</u>
Liabilities and Net Assets			
Liabilities			
Short-term Liabilities			
Other Short-term Liabilities	16,798.18	0.00	16,798.18
Total Short-term Liabilities	<u>16,798.18</u>	<u>0.00</u>	<u>16,798.18</u>
Total Liabilities	<u>16,798.18</u>	<u>0.00</u>	<u>16,798.18</u>
Net Assets	<u>5,419,961.36</u>	<u>4,169,387.92</u>	<u>1,250,573.44</u>
Total Liabilities and Net Assets	<u>5,436,759.54</u>	<u>4,169,387.92</u>	<u>1,267,371.62</u>



Nutrient
Statement of Activities - Actual vs Budget
 Year To Date 05/31/2022

	Actual	Budget	Budget Diff
Operating Revenue			
Revenue - Other	1,959.76	1,900,750.00	1,898,790.24
Total Operating Revenue	1,959.76	1,900,750.00	1,898,790.24
Expenditures			
Professional Fees	340.44	0.00	(340.44)
General and Administrative Expenses	99,822.26	1,763,000.00	1,663,177.74
Total Expenditures	100,162.70	1,763,000.00	1,662,837.30
Change In Net Assets	(98,202.94)	137,750.00	235,952.94
+ Net Assets - Beginning	5,518,164.30	0.00	98,202.94
Net Assets - Ending	5,419,961.36	137,750.00	334,155.88



Southeast WWTP

BNWRD Balance Sheet

	Year To Date 05/31/2022	Prior Year To Date 05/31/2021	Summary
	Current Year Balance	Prior Year	
Assets			
Current Assets			
Cash and Cash Equivalents	1,818,079.16	1,381,699.12	436,380.04
Accounts Receivable, Net	104,045.00	49,459.00	54,586.00
Other Current Assets	968,047.00	1,030,000.00	(61,953.00)
Total Current Assets	<u>2,890,171.16</u>	<u>2,461,158.12</u>	<u>429,013.04</u>
Investments			
Long Term Investments	0.00	388,969.27	(388,969.27)
Total Investments	<u>0.00</u>	<u>388,969.27</u>	<u>(388,969.27)</u>
Total Assets	<u>2,890,171.16</u>	<u>2,850,127.39</u>	<u>40,043.77</u>
Liabilities and Net Assets			
Liabilities			
Short-term Liabilities			
Other Short-term Liabilities	968,047.00	1,030,000.00	(61,953.00)
Total Short-term Liabilities	<u>968,047.00</u>	<u>1,030,000.00</u>	<u>(61,953.00)</u>
Total Liabilities	<u>968,047.00</u>	<u>1,030,000.00</u>	<u>(61,953.00)</u>
Net Assets	<u>1,922,124.16</u>	<u>1,820,127.39</u>	<u>101,996.77</u>
Total Liabilities and Net Assets	<u>2,890,171.16</u>	<u>2,850,127.39</u>	<u>40,043.77</u>



**Southeast WWTP
Statement of Activities - Actual vs Budget**
Year To Date 05/31/2022

	Actual	Budget	Budget Diff
Operating Revenue			
Revenue - Other	0.00	1,061,120.00	1,061,120.00
Revenue - Services	84,205.00	850,000.00	765,795.00
Total Operating Revenue	<u>84,205.00</u>	<u>1,911,120.00</u>	<u>1,826,915.00</u>
Expenditures			
Professional Fees	0.00	50.00	50.00
General and Administrative Expenses	1,200,000.00	2,050,000.00	850,000.00
Total Expenditures	<u>1,200,000.00</u>	<u>2,050,050.00</u>	<u>850,050.00</u>
Change In Net Assets	(1,115,795.00)	(138,930.00)	976,865.00
+ Net Assets - Beginning	3,037,919.16	0.00	1,115,795.00
Net Assets - Ending	<u>1,922,124.16</u>	<u>(138,930.00)</u>	<u>2,092,660.00</u>



IEPA Loan Retirement

BNWRD Balance Sheet

	Year To Date 05/31/2022	Prior Year To Date 05/31/2021	
	Current Year Balance	Prior Year	Summary
Assets			
Current Assets			
Cash and Cash Equivalents	253,028.61	276,688.97	(23,660.36)
Other Current Assets	988,757.00	988,687.67	69.33
Total Current Assets	<u>1,241,785.61</u>	<u>1,265,376.64</u>	<u>(23,591.03)</u>
Loans Receivable	4,368,987.49	5,200,410.98	(831,423.49)
Total Assets	<u>5,610,773.10</u>	<u>6,465,787.62</u>	<u>(855,014.52)</u>
Liabilities and Net Assets			
Liabilities			
Short-term Liabilities			
Other Short-term Liabilities	1,017,245.26	1,021,712.50	(4,467.24)
Total Short-term Liabilities	<u>1,017,245.26</u>	<u>1,021,712.50</u>	<u>(4,467.24)</u>
Long Term Liabilities			
Other Long-term Liabilities	9,899,684.51	11,592,141.70	(1,692,457.19)
Total Long Term Liabilities	<u>9,899,684.51</u>	<u>11,592,141.70</u>	<u>(1,692,457.19)</u>
Total Liabilities	<u>10,916,929.77</u>	<u>12,613,854.20</u>	<u>(1,696,924.43)</u>
Net Assets	<u>(5,306,156.67)</u>	<u>(6,148,066.58)</u>	<u>841,909.91</u>
Total Liabilities and Net Assets	<u>5,610,773.10</u>	<u>6,465,787.62</u>	<u>(855,014.52)</u>



**IEPA Loan Retirement
Statement of Activities - Actual vs Budget**
Year To Date 05/31/2022

	Actual	Budget	Budget Diff
Operating Revenue			
Revenue - Other	71.70	1,820,431.00	1,820,359.30
Total Operating Revenue	<u>71.70</u>	<u>1,820,431.00</u>	<u>1,820,359.30</u>
Expenditures			
Professional Fees	12.73	50.00	37.27
General and Administrative Expenses	23,840.59	1,844,021.00	1,820,180.41
Total Expenditures	<u>23,853.32</u>	<u>1,844,071.00</u>	<u>1,820,217.68</u>
Change In Net Assets	(23,781.62)	(23,640.00)	141.62
+ Net Assets - Beginning	(5,282,375.05)	0.00	23,781.62
Net Assets - Ending	<u>(5,306,156.67)</u>	<u>(23,640.00)</u>	<u>23,923.24</u>



SEWWTP Loan Retirement

**BNWRD
Balance Sheet**

	Year To Date 05/31/2022	Prior Year To Date 05/31/2021	
	Current Year Balance	Prior Year	Summary
Assets			
Current Assets			
Cash and Cash Equivalents	28,241.65	51,601.30	(23,359.65)
Other Current Assets	356,980.00	327,777.00	29,203.00
Total Current Assets	<u>385,221.65</u>	<u>379,378.30</u>	<u>5,843.35</u>
Total Assets	<u>385,221.65</u>	<u>379,378.30</u>	<u>5,843.35</u>
Liabilities and Net Assets			
Liabilities			
Short-term Liabilities			
Other Short-term Liabilities	428,639.67	426,684.76	1,954.91
Total Short-term Liabilities	<u>428,639.67</u>	<u>426,684.76</u>	<u>1,954.91</u>
Long Term Liabilities			
Other Long-term Liabilities	5,979,058.63	8,252,554.14	(2,273,495.51)
Total Long Term Liabilities	<u>5,979,058.63</u>	<u>8,252,554.14</u>	<u>(2,273,495.51)</u>
Total Liabilities	<u>6,407,698.30</u>	<u>8,679,238.90</u>	<u>(2,271,540.60)</u>
Net Assets	<u>(6,022,476.65)</u>	<u>(8,299,860.60)</u>	<u>2,277,383.95</u>
Total Liabilities and Net Assets	<u>385,221.65</u>	<u>379,378.30</u>	<u>5,843.35</u>



**SEWWTP Loan Retirement
Statement of Activities - Actual vs Budget**
Year To Date 05/31/2022

	Actual	Budget	Budget Diff
Operating Revenue			
Revenue - Other	1,200,000.00	2,462,976.00	1,262,976.00
Total Operating Revenue	<u>1,200,000.00</u>	<u>2,462,976.00</u>	<u>1,262,976.00</u>
Expenditures			
General and Administrative Expenses	1,248,419.99	2,496,840.00	1,248,420.01
Total Expenditures	<u>1,248,419.99</u>	<u>2,496,840.00</u>	<u>1,248,420.01</u>
Change In Net Assets	(48,419.99)	(33,864.00)	14,555.99
+ Net Assets - Beginning	(5,974,056.66)	0.00	48,419.99
Net Assets - Ending	<u>(6,022,476.65)</u>	<u>(33,864.00)</u>	<u>62,975.98</u>

REPORTS

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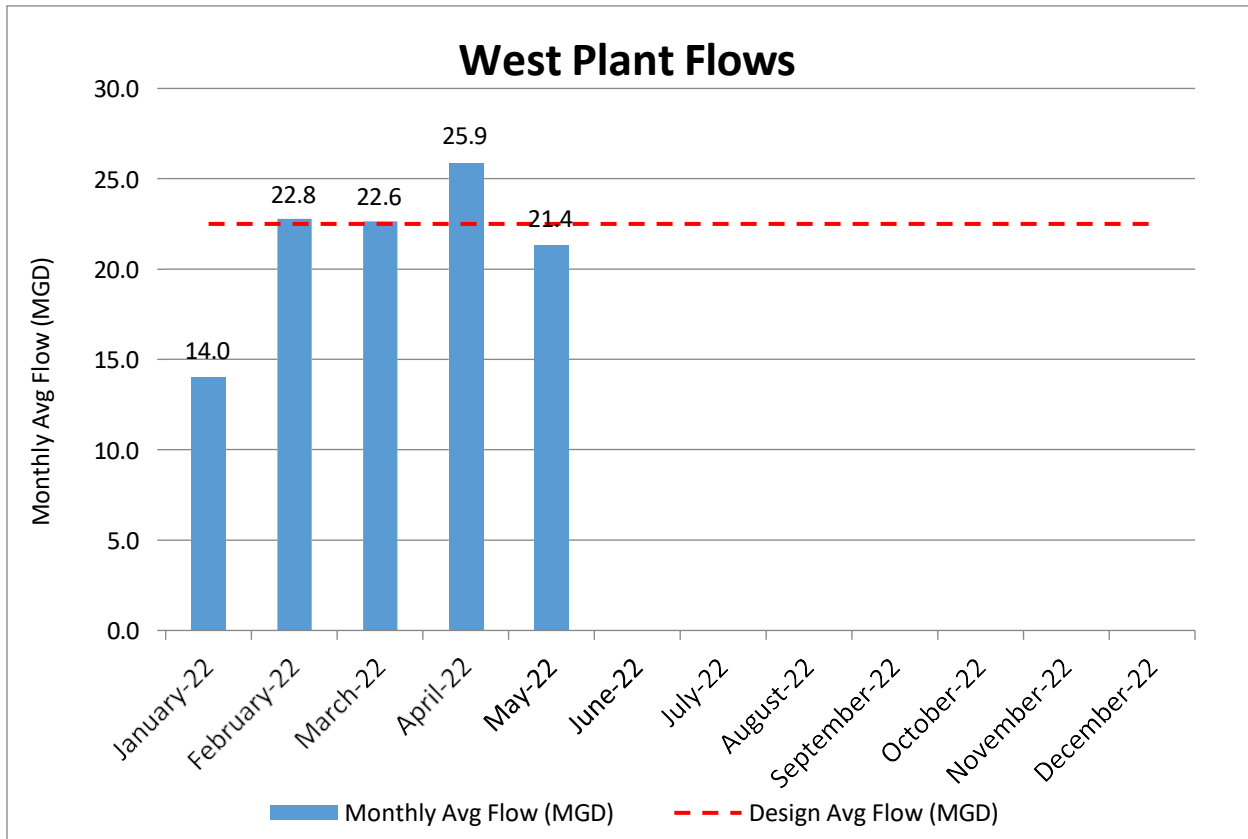
To: Tim Ervin, Executive Director

From: Jake Callahan, Director of Operations & Maintenance

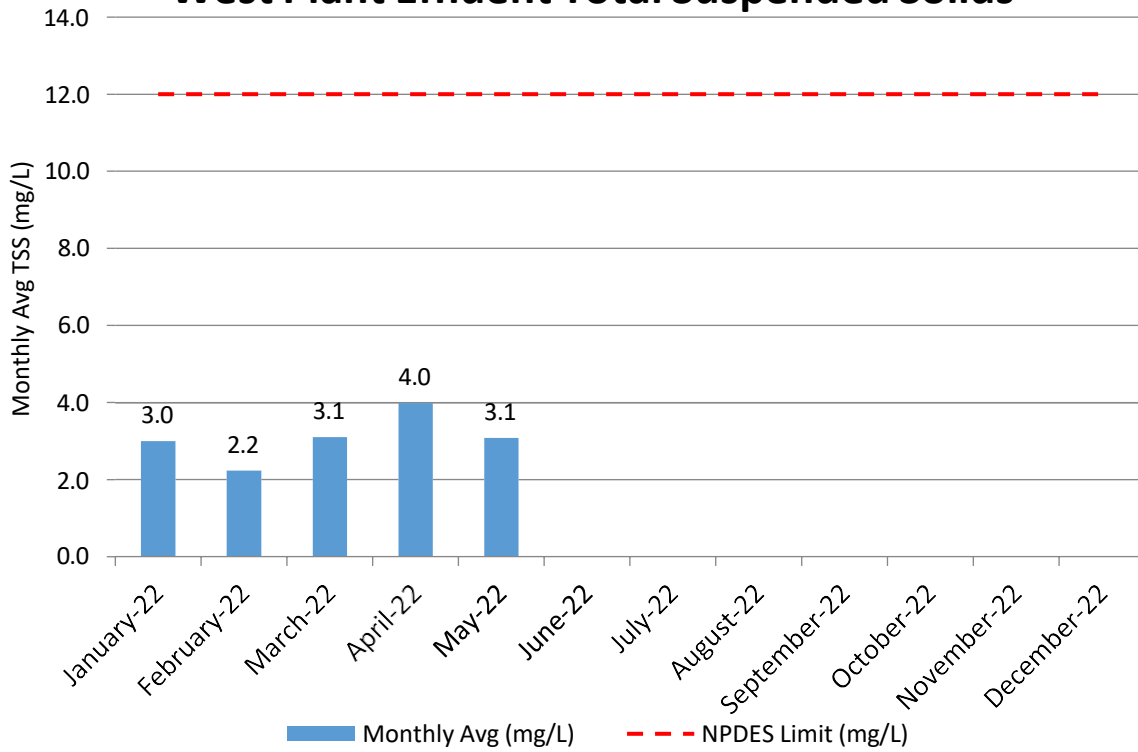
Subject: May 2022 Operations Report

The West and Southeast Plant (SE Plant) were both in full compliance with NPDES Permit effluent limits during May 2022. This report includes data on key performance indicators and a few relevant Operational updates.

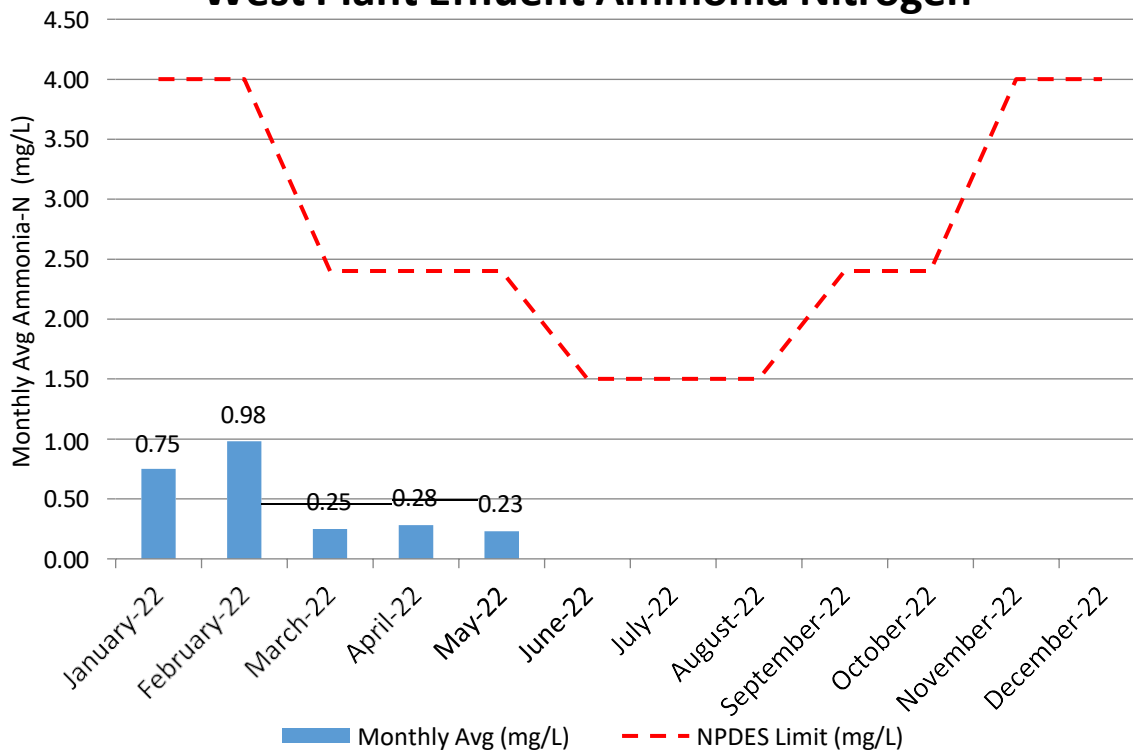
- Kudos to Operator Jason Beach for passing his Class 3 IEPA Wastewater Treatment Works Operator Certification Exam.
- We welcomed Austin Weaver to the Maintenance team as an Assistant Mechanic/General Laborer.
- FY 2022 EQF budgeted Plant 3 West Waste Activated Sludge flow meter and automation project is substantially complete. Delays in equipment arrival caused the project to get pushed into FY 2023.
- Site data conversions and system configurations for the District's new work order software Infor EAM continue to progress. Go-live has been successful as we are now processing work requests and work orders through the software.
- Staff continues to plan and coordinate provisions for the upcoming clean-out of the West Plant Primary Digester.



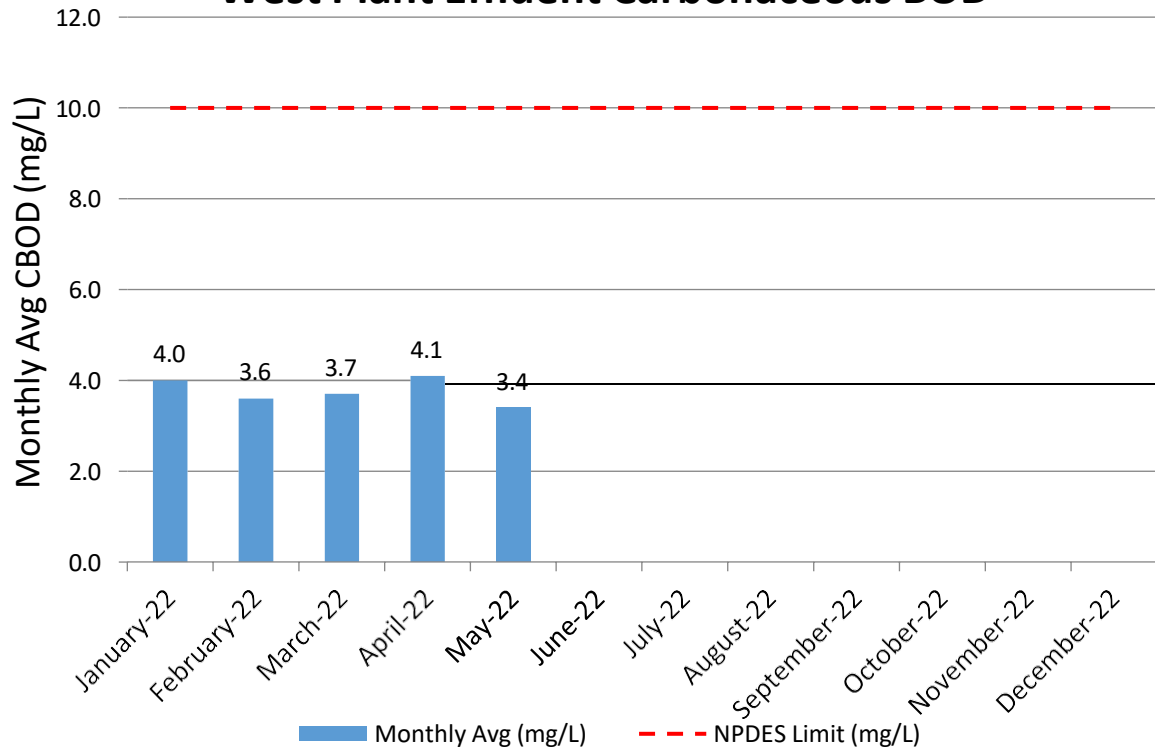
West Plant Effluent Total Suspended Solids



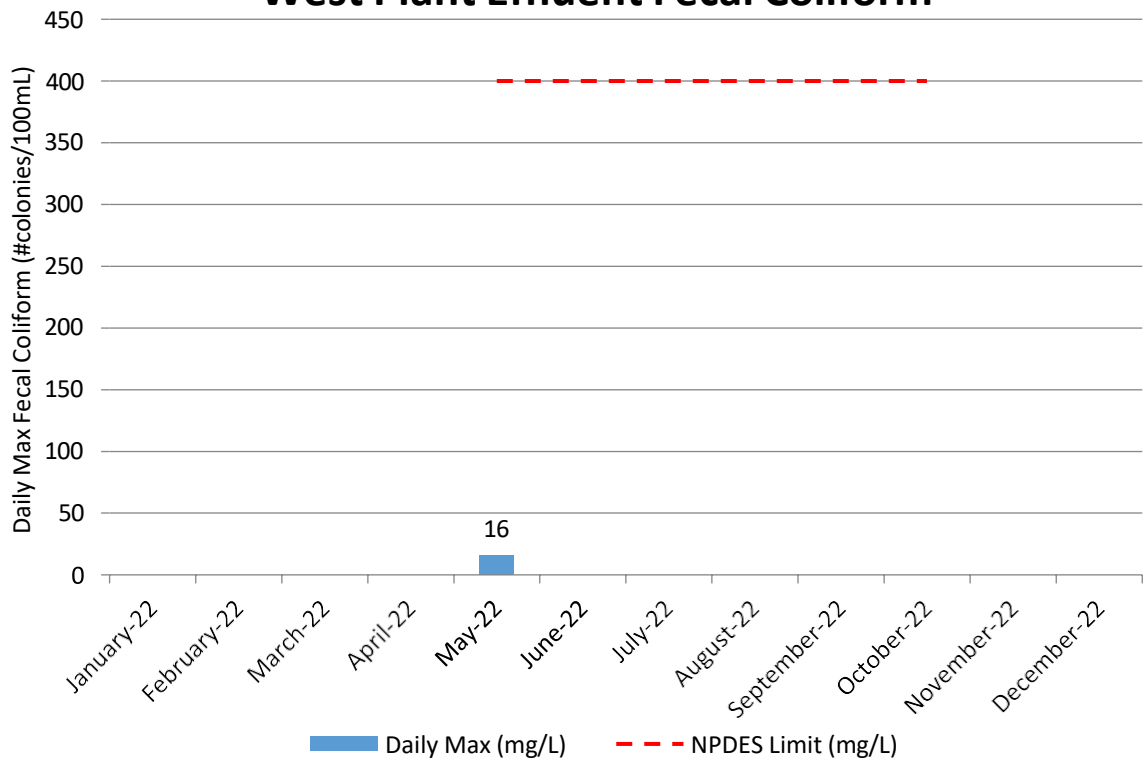
West Plant Effluent Ammonia Nitrogen



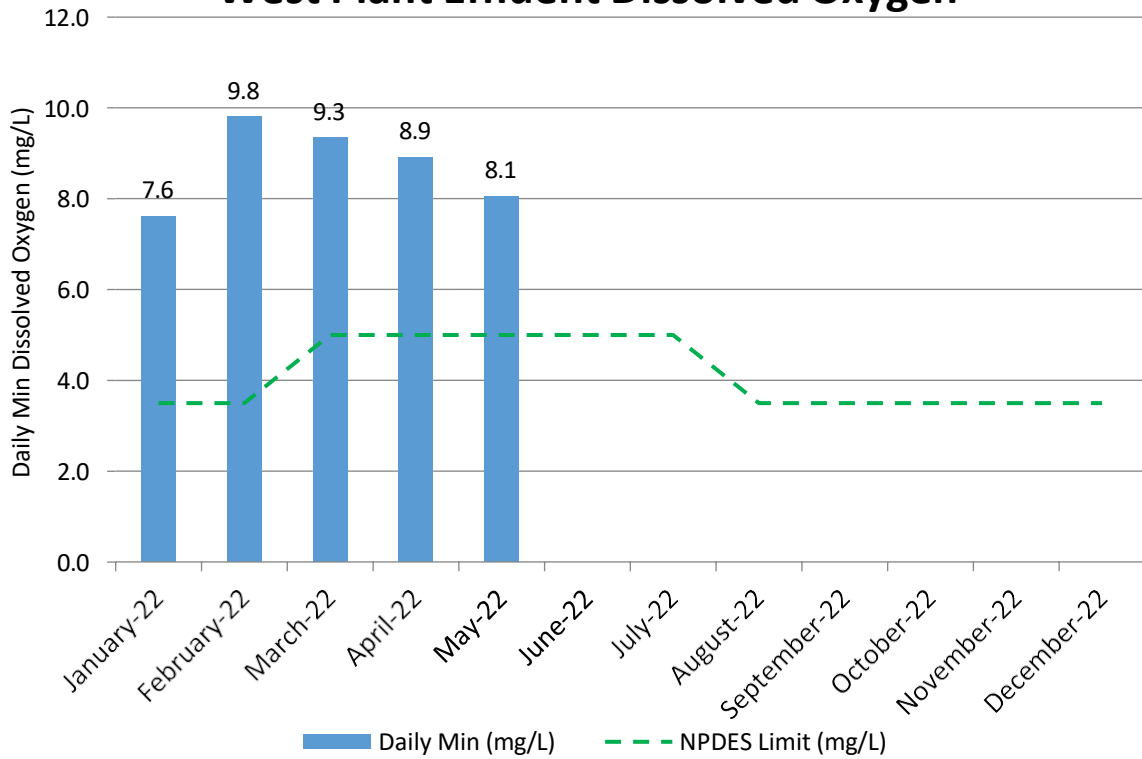
West Plant Effluent Carbonaceous BOD



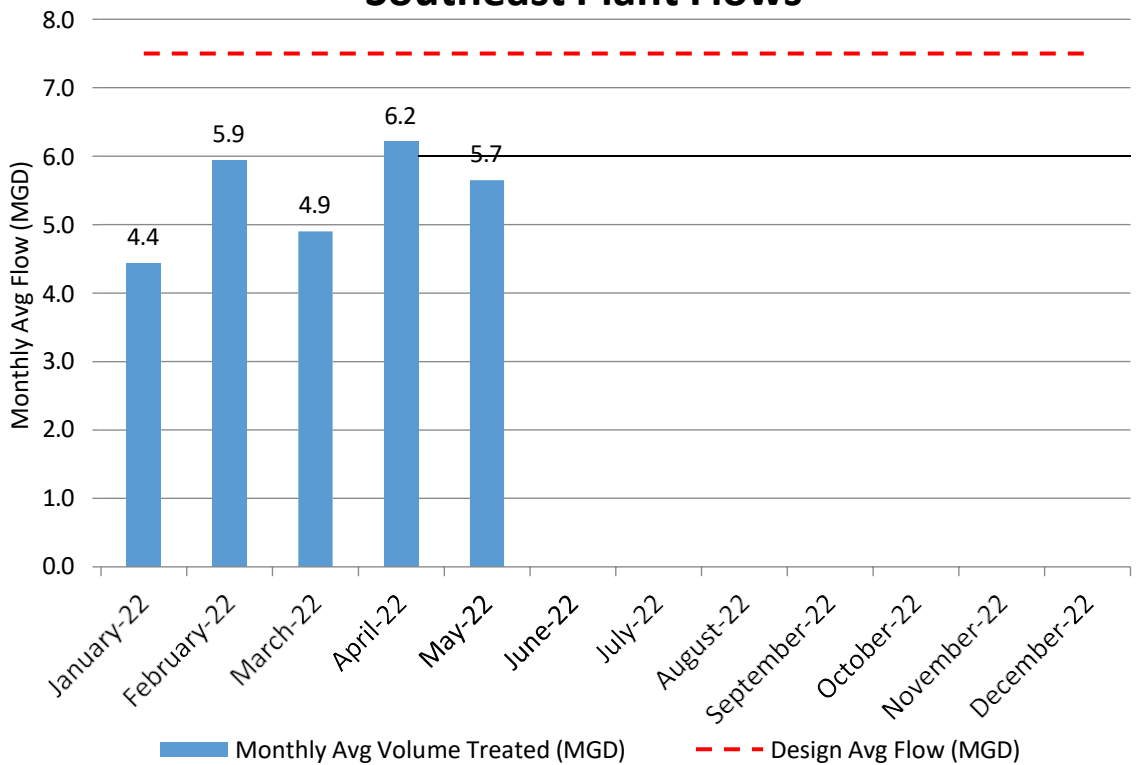
West Plant Effluent Fecal Coliform



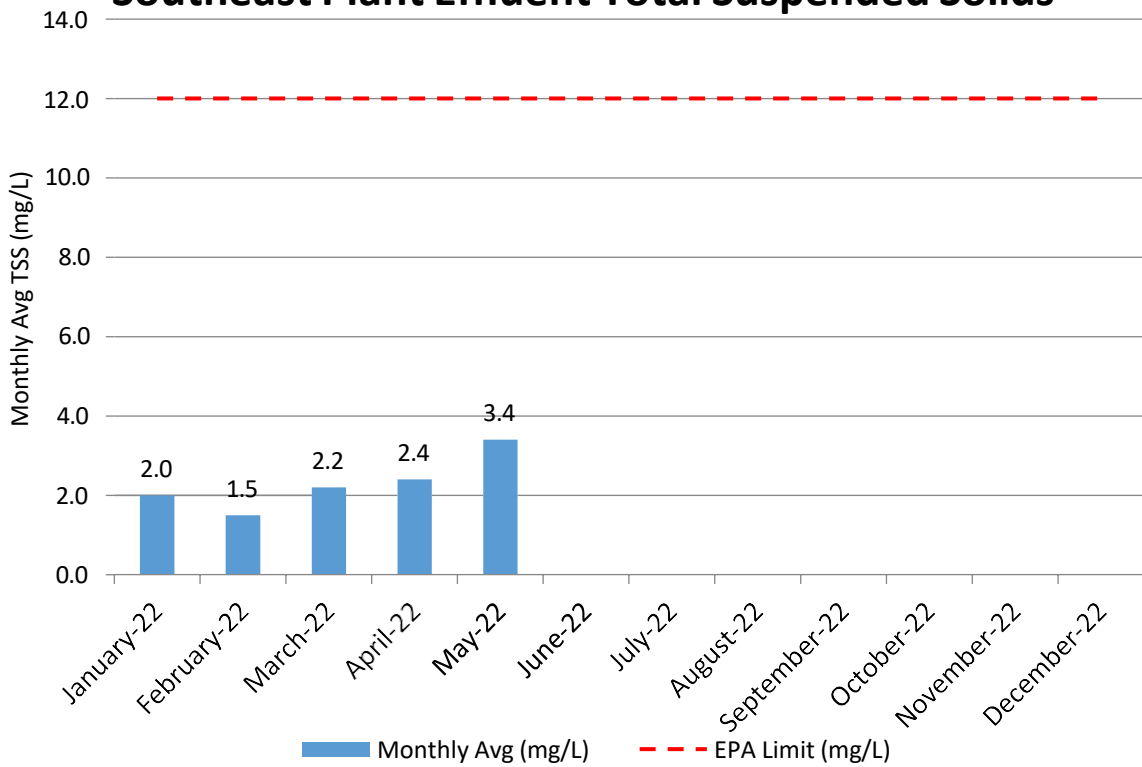
West Plant Effluent Dissolved Oxygen



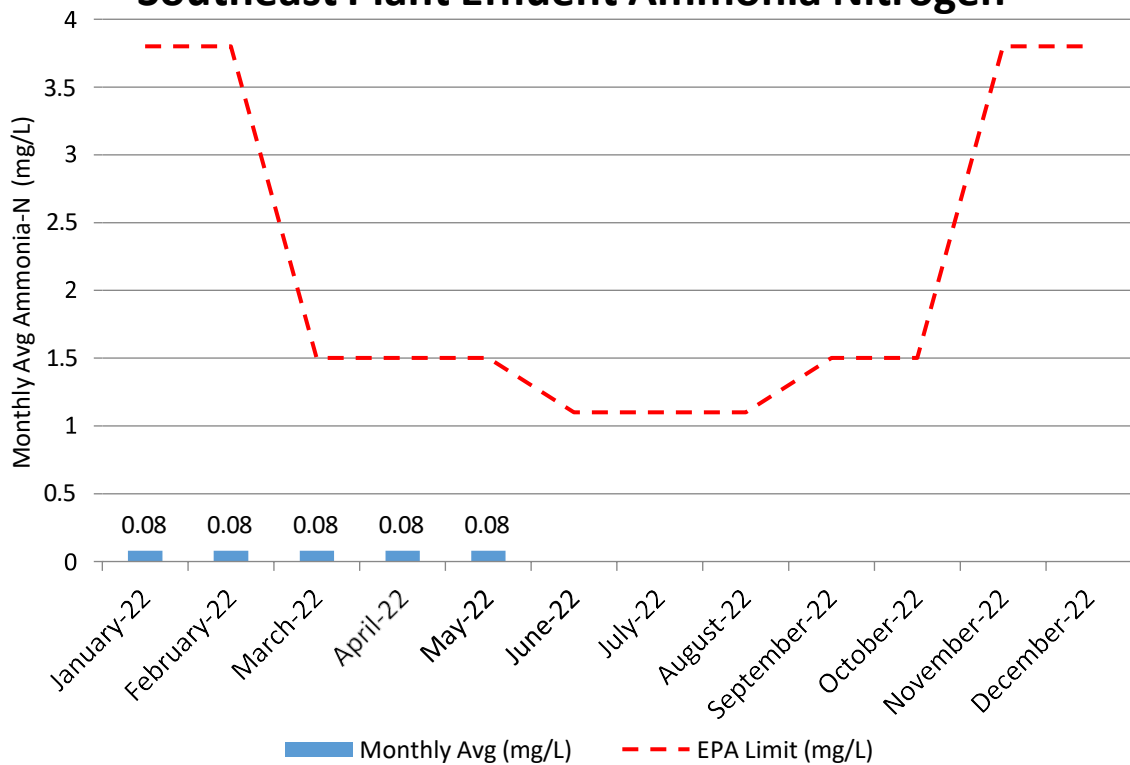
Southeast Plant Flows



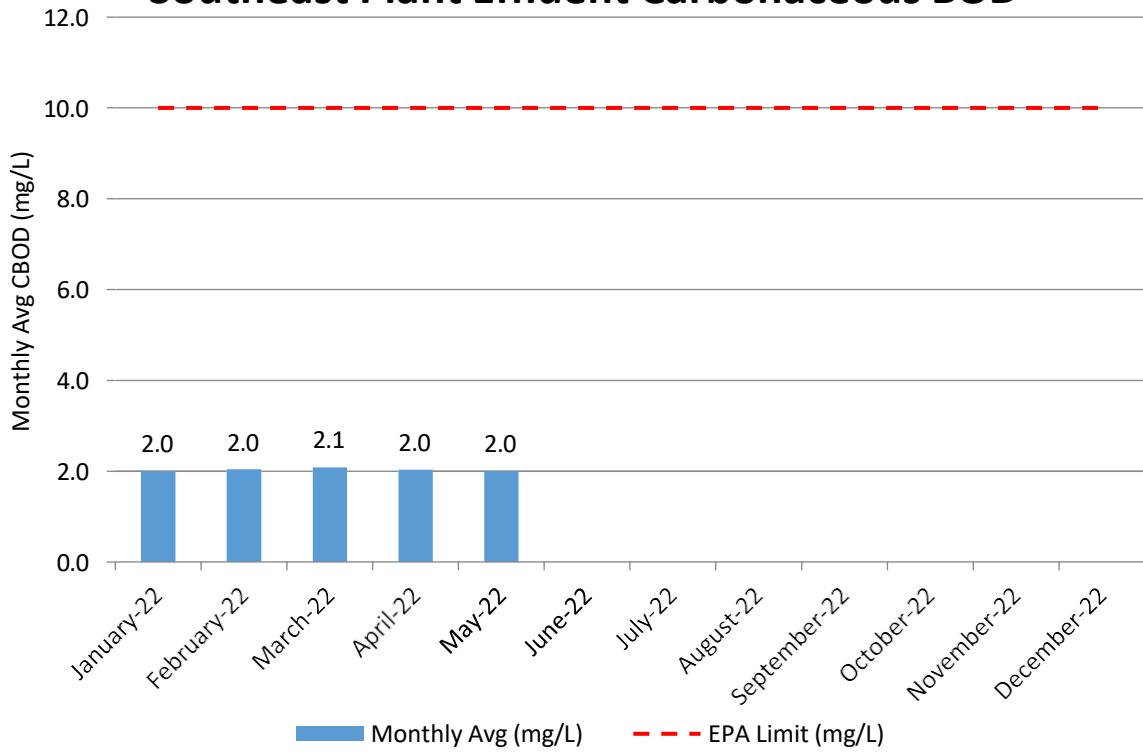
Southeast Plant Effluent Total Suspended Solids



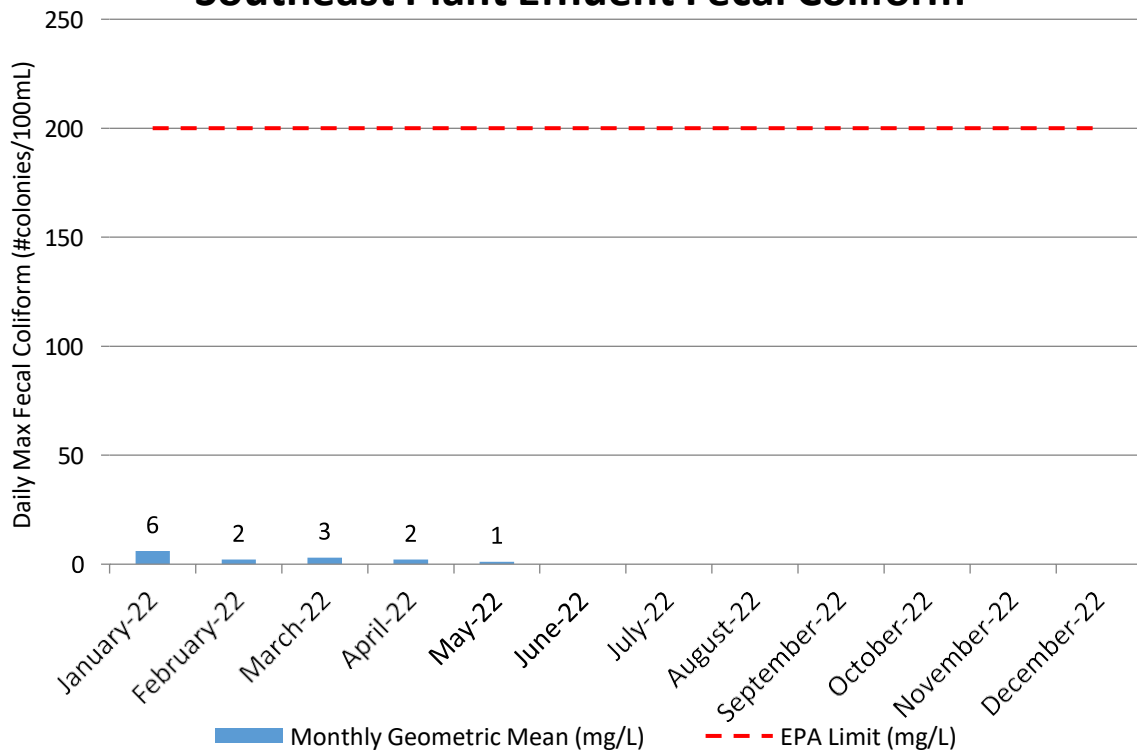
Southeast Plant Effluent Ammonia Nitrogen



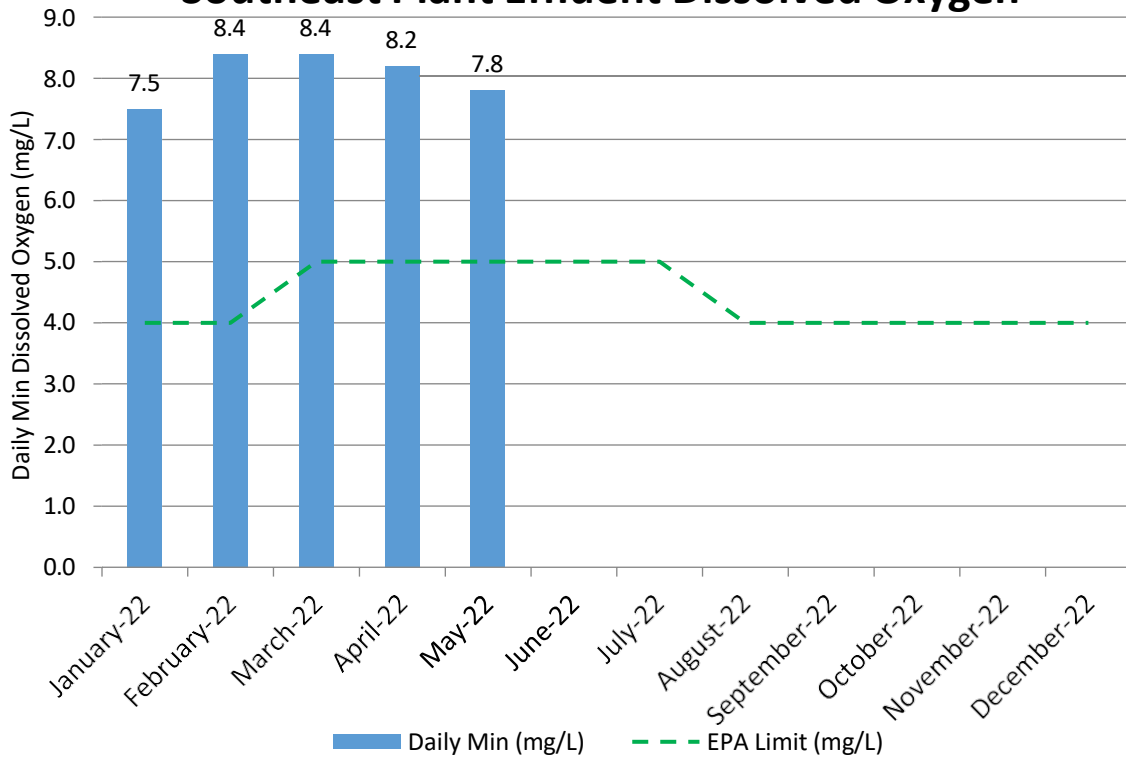
Southeast Plant Effluent Carbonaceous BOD



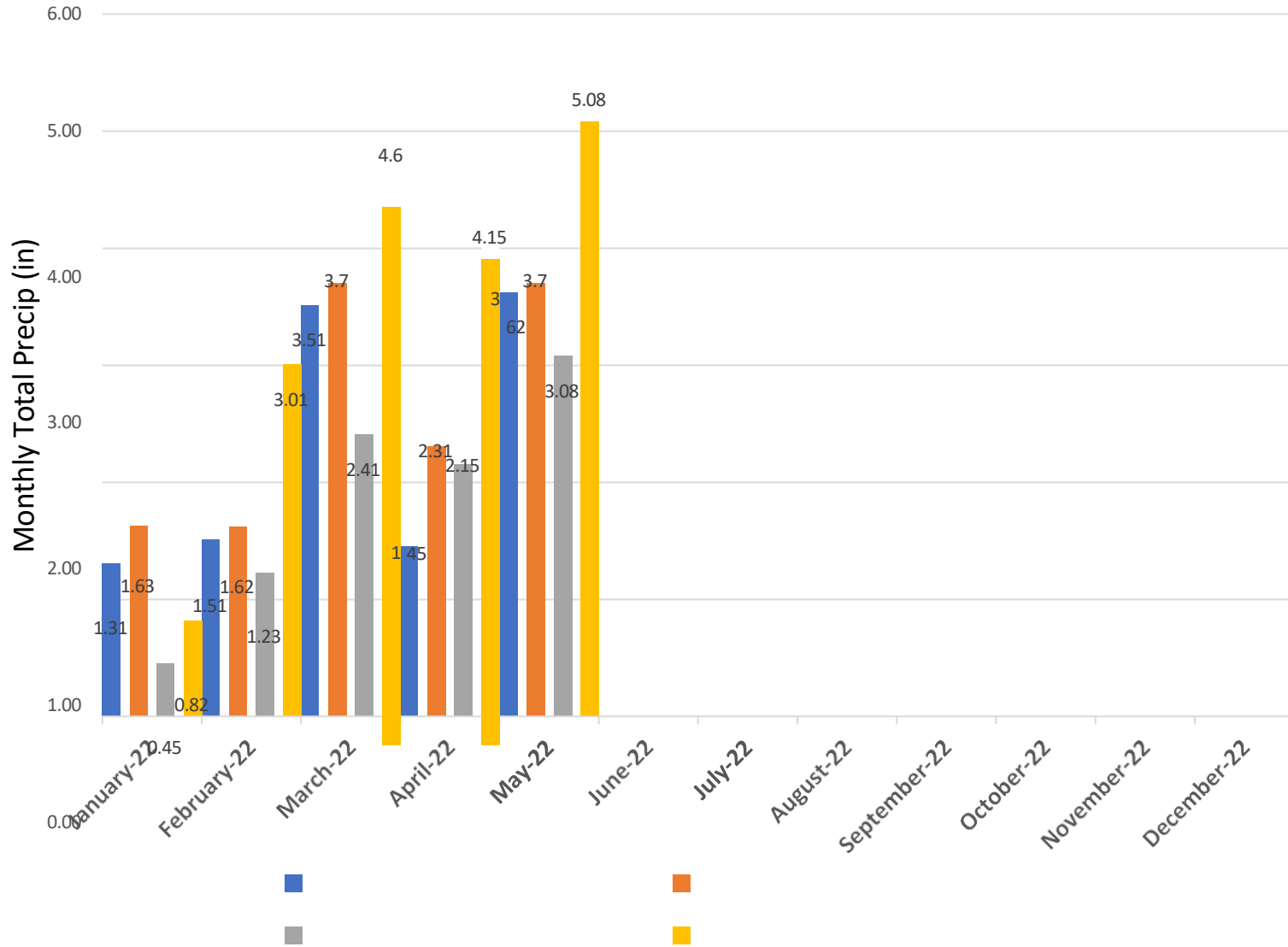
Southeast Plant Effluent Fecal Coliform



Southeast Plant Effluent Dissolved Oxygen



BNWRD Weather Station-Precipitation



■ West Plant Total Precip (in) ■ GEVPS Total Precip (in)
■ SE Plant Total Precip (in) ■ LKPS Total Precip (in)

June 3, 2022

Bloomington and Normal Water Reclamation District
2015 West Oakland Avenue
Bloomington, IL 61701

Attention: Tim Ervin, Executive Director

Subject: Bloomington and Normal Water Reclamation District (BNWRD)
June 2022 Engineering Project Status Report

Dear Tim:

Following is a status summary on current Engineering projects.

- I. SEWWTP Digester Reconstruction
 - a. Awaiting Maxon valve installation. Current quoted ship date from the factory is June 15.
- II. Plant Nutrient Conversions – IEPA Coordination
 - a. Received formal planning approval from IEPA in May. Loan paperwork in progress.
- III. SEWWTP Biological Nutrient Removal Improvements
 - a. Process design proceeding, next meeting with Staff scheduled for June 24, to review process schematic designs.
 - b. Capacity upgrade options are being developed with Staff now for approval of IEPA.
- IV. West WWTP Plant 1 Hydraulic Study
 - a. Draft hydraulic design and preliminary layout being updated. On schedule to submit draft report this month.
- V. Miscellaneous Automation & Controls
 - a. Minor programming updates on SCADA systems.

- VI. West Plant Sludge Drying Bed Paving
 - a. On hold until authorized to bid.

- VII. Little Kickapoo Pump Station (LKPS) Generator
 - a. Finishing bidding documents now for Staff review. Anticipate bidding this month.

- VIII. Caroline St. Grit Chamber HVAC
 - a. Work paused pending the outcome of the Caroline St. Grit Chamber Improvement Study.

- IX. 51" Interceptor Rehabilitation
 - a. Generating bidding documents now and anticipate bidding in July for the cleaning and televising of the sewer from the Caroline St. Grit Chamber to Olive Steet.
 - b. Rehabilitation/lining project scope will be based off televised inspection findings.

- X. West WWTP Solids Handling Building HVAC
 - a. Developing a preliminary dewatering equipment layout for the building to determine if future building addition will be necessary. Will present layout to Staff in July for review then commence HVAC upgrade design.

Please let us know if there are any clarifications or further information needed in advance of the Board meeting.

Sincerely,

FARNSWORTH GROUP, INC.



Shawn Maurer, P.E.
Engineering Manager

cc: Elizabeth Megli
Robert Kohlhase

CONSENT AGENDA

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Bloomington and Normal Water Reclamation District

CONSENT AGENDA ITEM NO. A

BOARD MEETING DATE: June 13, 2022

SUBJECT: Renewal of Property, Liability, Pollution, and Cyber Insurance

PREPARED BY: Timothy L. Ervin, Executive Director

REVIEWED BY: Renee Gooderham, HR Manager

STAFF RECOMMENDATION: That the Property and Liability Insurance renewal with Travelers, Pollution Insurance renewal with Navigators Specialty, and Cyber Insurance renewal with Beazley be approved and the Executive Director authorized to sign the necessary documents.

ATTACHMENTS: BNWRD Profile, Renewal Price Comparison, and Market Report

BACKGROUND: Staff met with representatives from Gallagher to discuss the Property and Liability insurance renewal. The District currently has Travelers Insurance for property, inland marine, liability, automobile, crime, umbrella, workers compensation and equipment breakdown. Additionally, Beazley provides cyber insurance and Navigators Specialty for pollution remediation. According to A.M. Best's Rating Travelers is an A++, while Beazley and Navigators Specialty are A-rated.

Overall, the premium change has increased by approximately 15.1 percent from \$340,863 to \$392,481. This premium includes a 6 percent inflationary increase in property values, crime deductible increase from \$500 to \$1,000 dollars, and a code upgrade from \$250,000 to \$1,000,000. Separate from the premium increase, Staff recommends the District increase the earthquake limit of insurance from \$5.0 million to \$10 million with the purchase of an additional \$5.0 million of earthquake limits from Travelers Insurance for an additional \$19,026. The US National Seismic Hazard Map 2018 displays all District facilities in a "strong" earthquake area. This number is not reflected in the \$392,481 premium. Property insurance premium increased by \$34,823. This increase can directly be attributed to a combination of the Southeast Digester explosion (claimed to close in April 2022) and the inflationary increase in property values. It should be noted that cyber insurance decreased by 15.8% which is a direct result of the on-going investment in cyber security. It should be noted Gallagher Insurance provides prompt and excellent customer service.

BUDGET IMPACT: The insurance policies are in effect from July 1st to June 30th. The District's tax levy includes a component that reimburses the District for the cost of the insurance. Although the cost of insurance is expected to exceed the budget by approximately \$63,407, the difference will be reimbursed to the District in the Tax Levy 2022 paid in Fiscal Year 2024.

Bloomington - Normal Water Reclamation District Profile

Exposure BLOO-NO-01_Bloomington - Normal Water Reclamation District _052022_SOV

Analysis as-of-date May 23, 2022

Created On May 23, 2022



#Assets
100

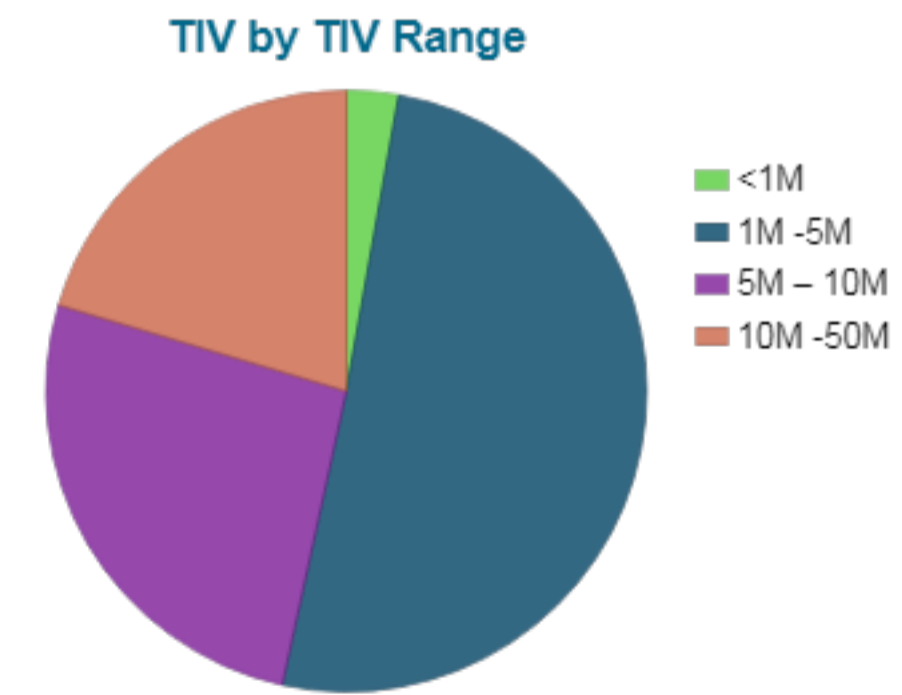
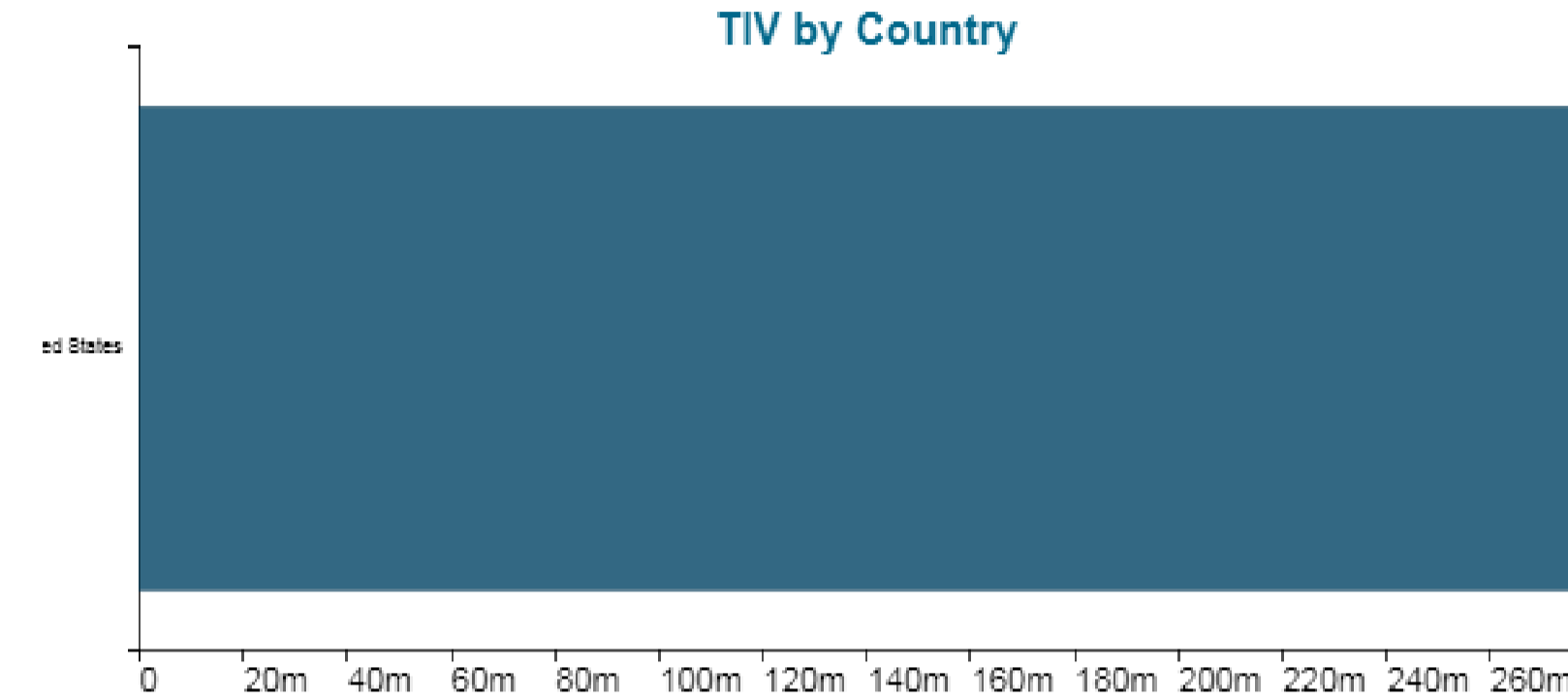
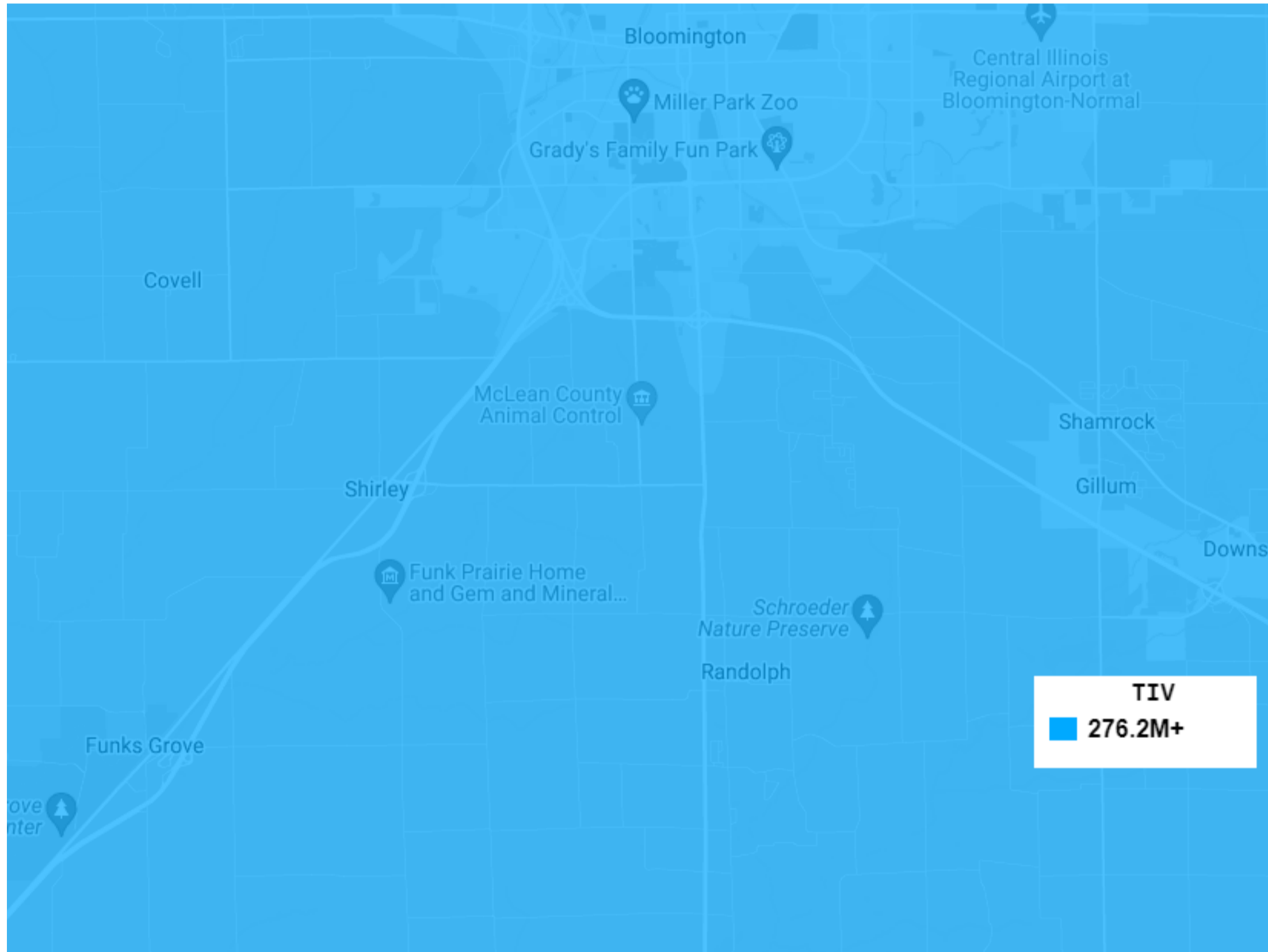
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Value PD>BLD Buildings
198.8M

Value PD>CON Contents
76.4M

Value TE>BI Business Interruption
1.0M

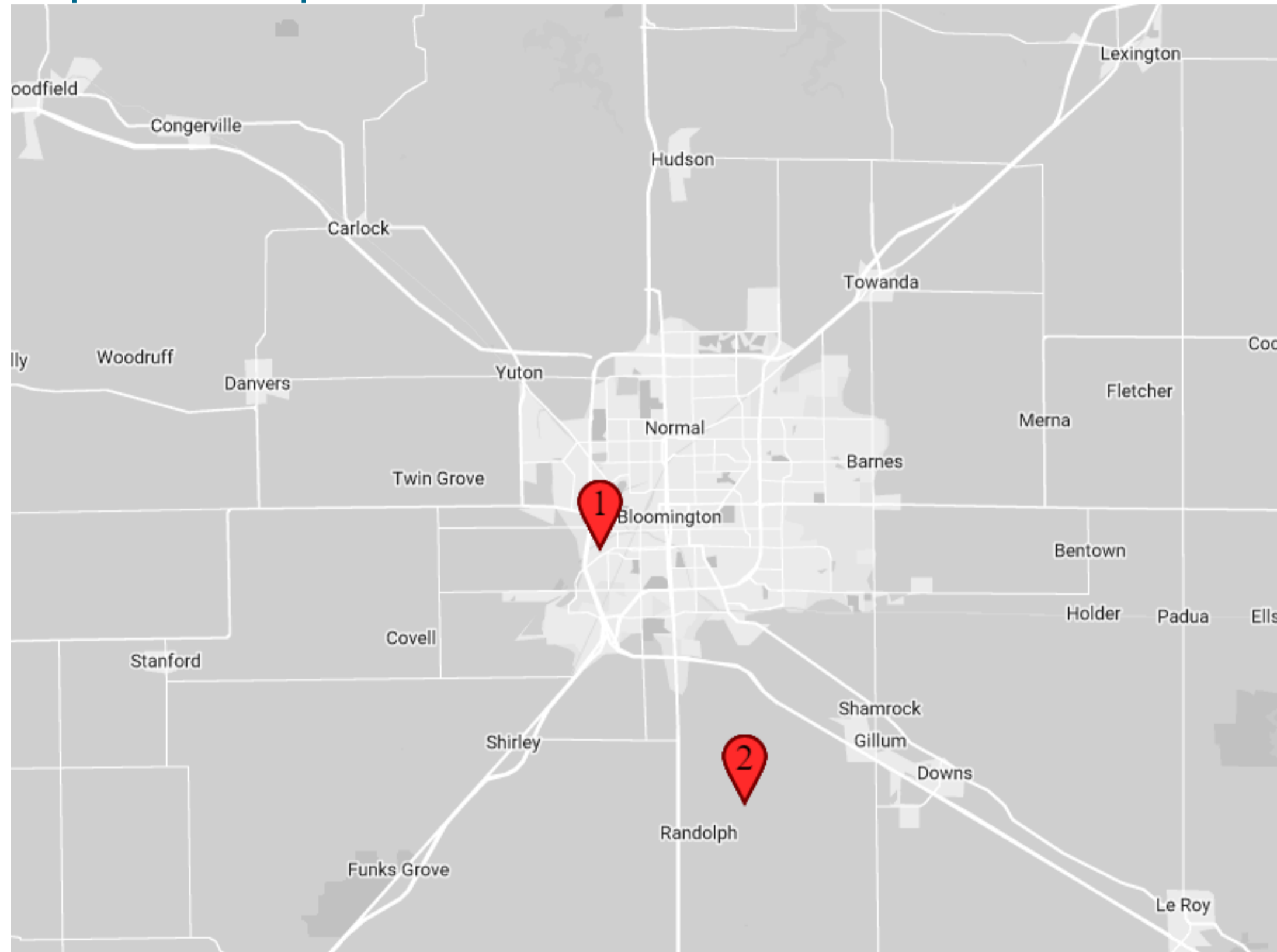
Currency
USD



DISTRIBUTION OF VALUE BY GEOCODING RESOLUTION

WHAT ARE THE TOP LOCATIONS BY VALUE AND WHERE ARE THE CONCENTRATIONS OF VALUE GEOGRAPHICALLY?

The top 10 locations by value are shown below. Concentration of values are in the hotspots on the map.



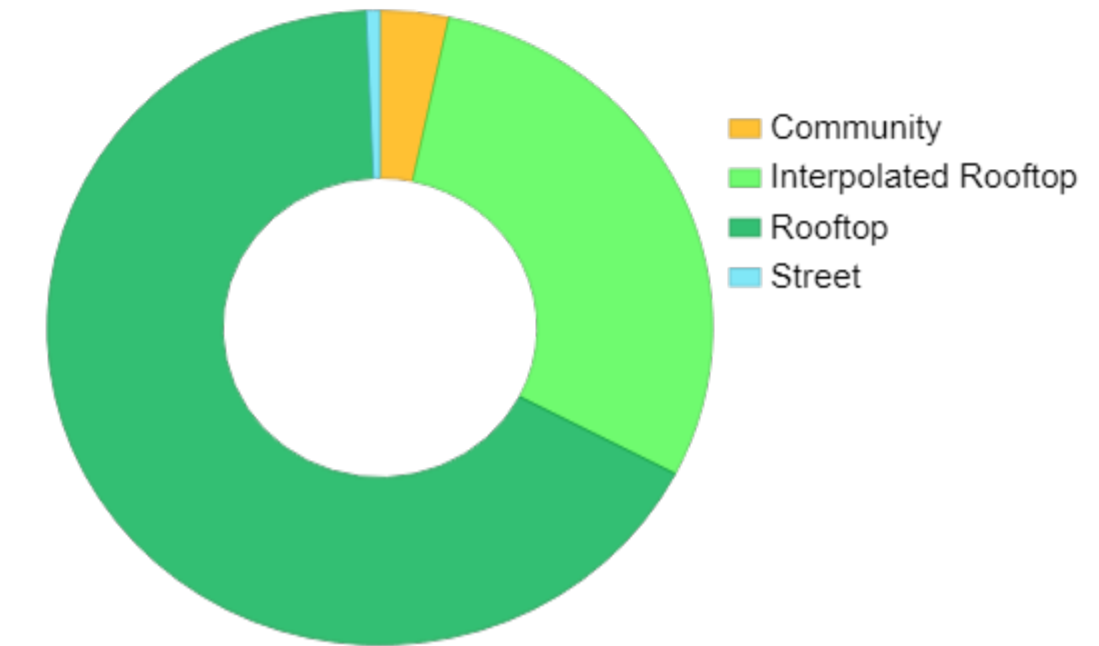
For the highest confidence in the results in this report, It is important that the top locations by value are geocoded to rooftop level resolution.

#Assets
100

TIV
276.2M

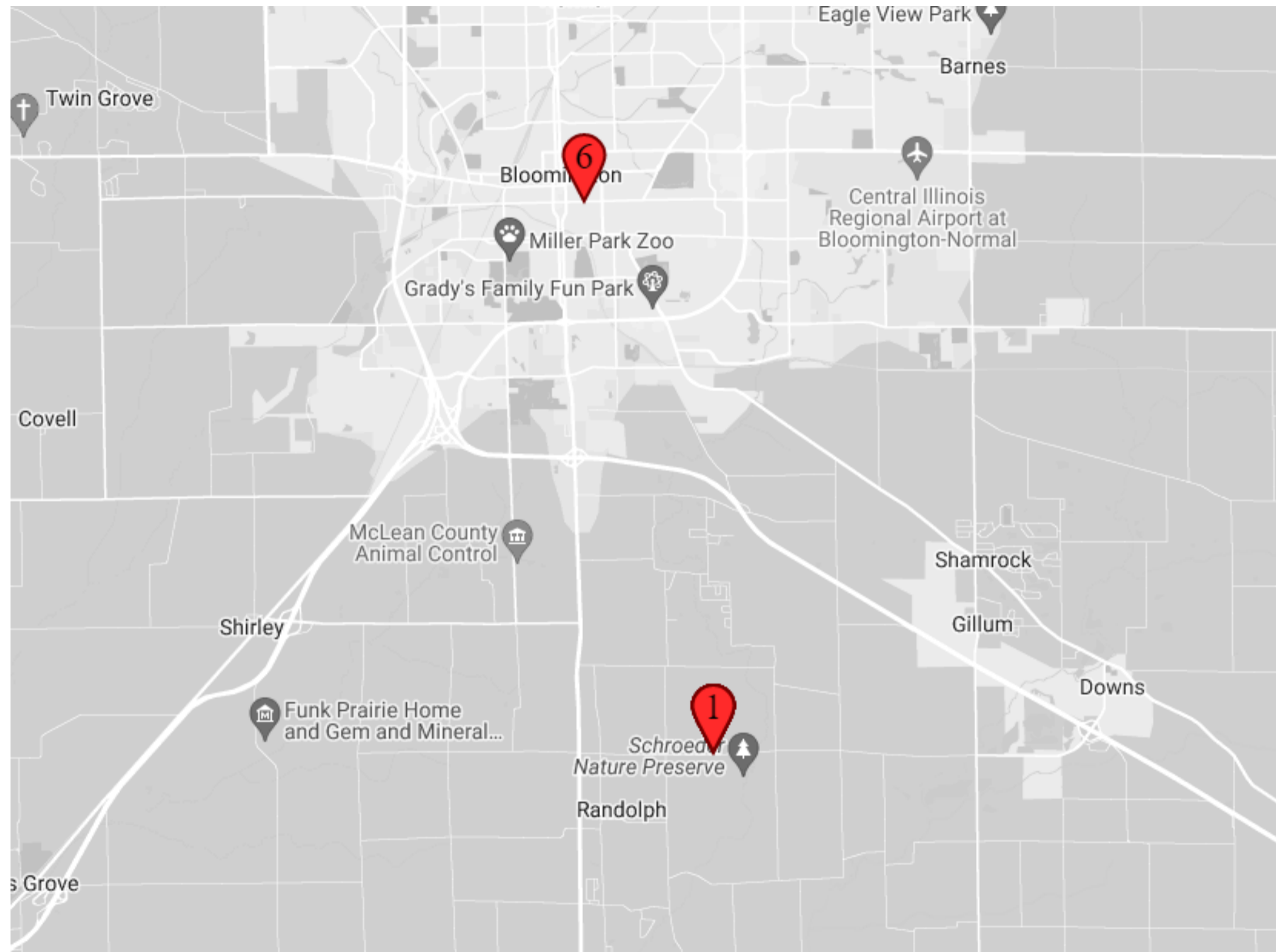
Currency
USD

TIV by Geocoded Resolution



#	Asset Number	Asset Name	Address Line 1	TIVGeocoded Resolution
1	43	2015 W Oakland	2015 W Oakland	23.7MRooftop
2	74	16041 E 700 North	16041 E 700 North	11.5MInterpolated Rooftop
3	69	16041 E 700 North	16041 E 700 North	10.8MInterpolated Rooftop
4	78	16041 E 700 North	16041 E 700 North	10.3MInterpolated Rooftop
5	35	2015 W Oakland	2015 W Oakland	9.7MRooftop
6	77	16041 E 700 North	16041 E 700 North	8.1MInterpolated Rooftop
7	31	2015 W Oakland	2015 W Oakland	7.8MRooftop
8	16	2015 W Oakland	2015 W Oakland	6.7MRooftop
9	32	2015 W Oakland	2015 W Oakland	6.3MRooftop
10	67	16041 E 700 North	16041 E 700 North	5.8MInterpolated Rooftop

The top 10 locations by value NOT geo-coded to rooftop level and not user-defined are shown below.

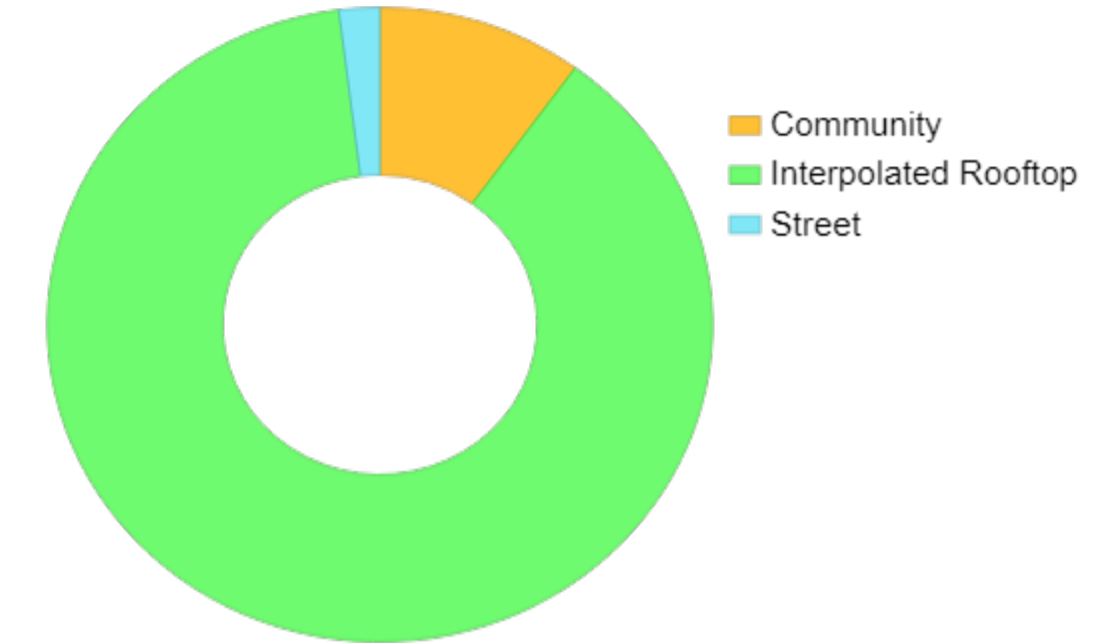


The top locations shown here may or may not be in regions of high flood or surge risk. But, the only way to be confident is to confirm that you have the best possible resolution geo-coding. These locations should be prioritized for address correction and/or re-geocoding.

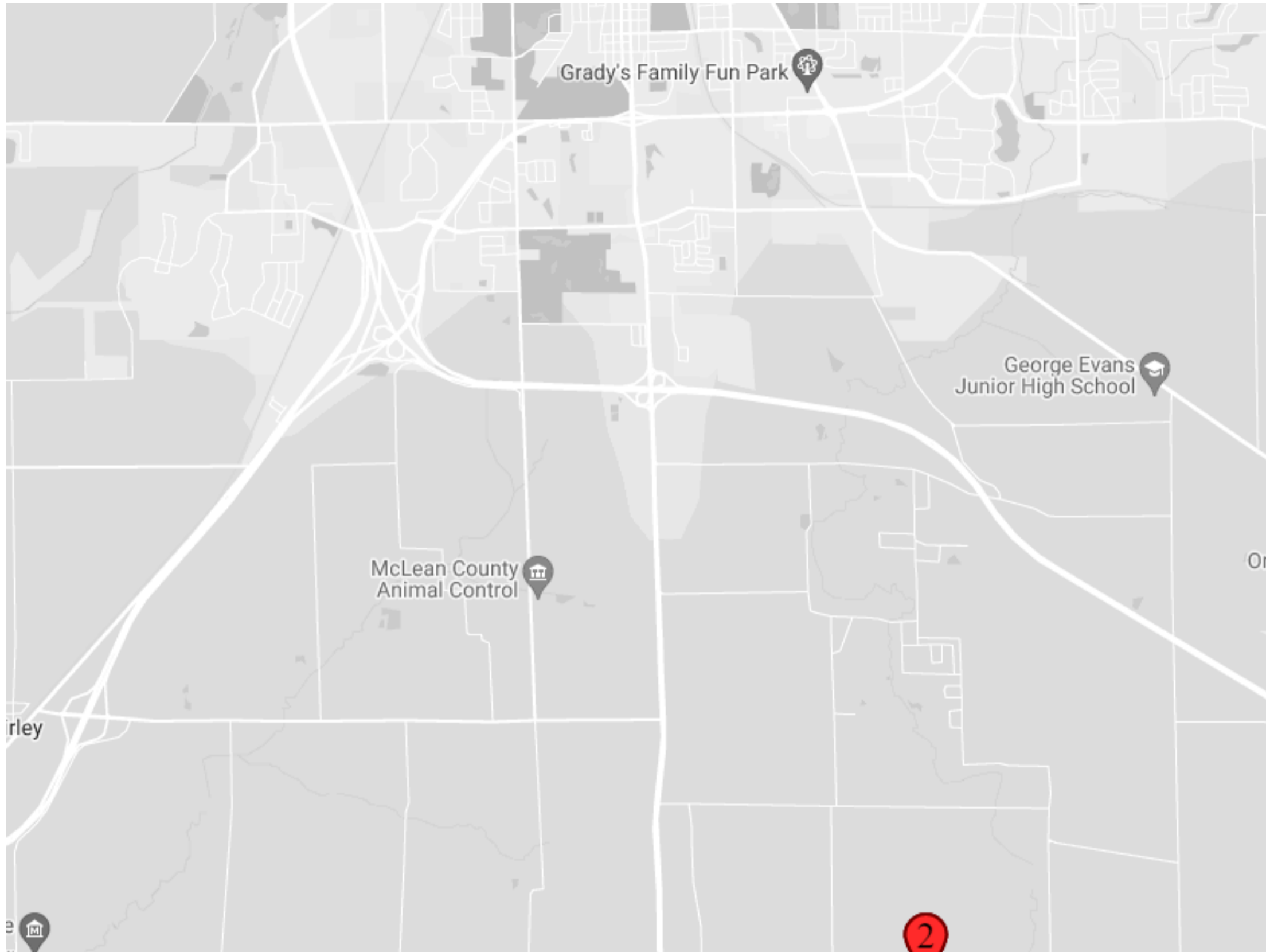
#Assets
32 of 100

TIV
91.9M of 276.2M
TIV by Geocoded Resolution

Currency
USD

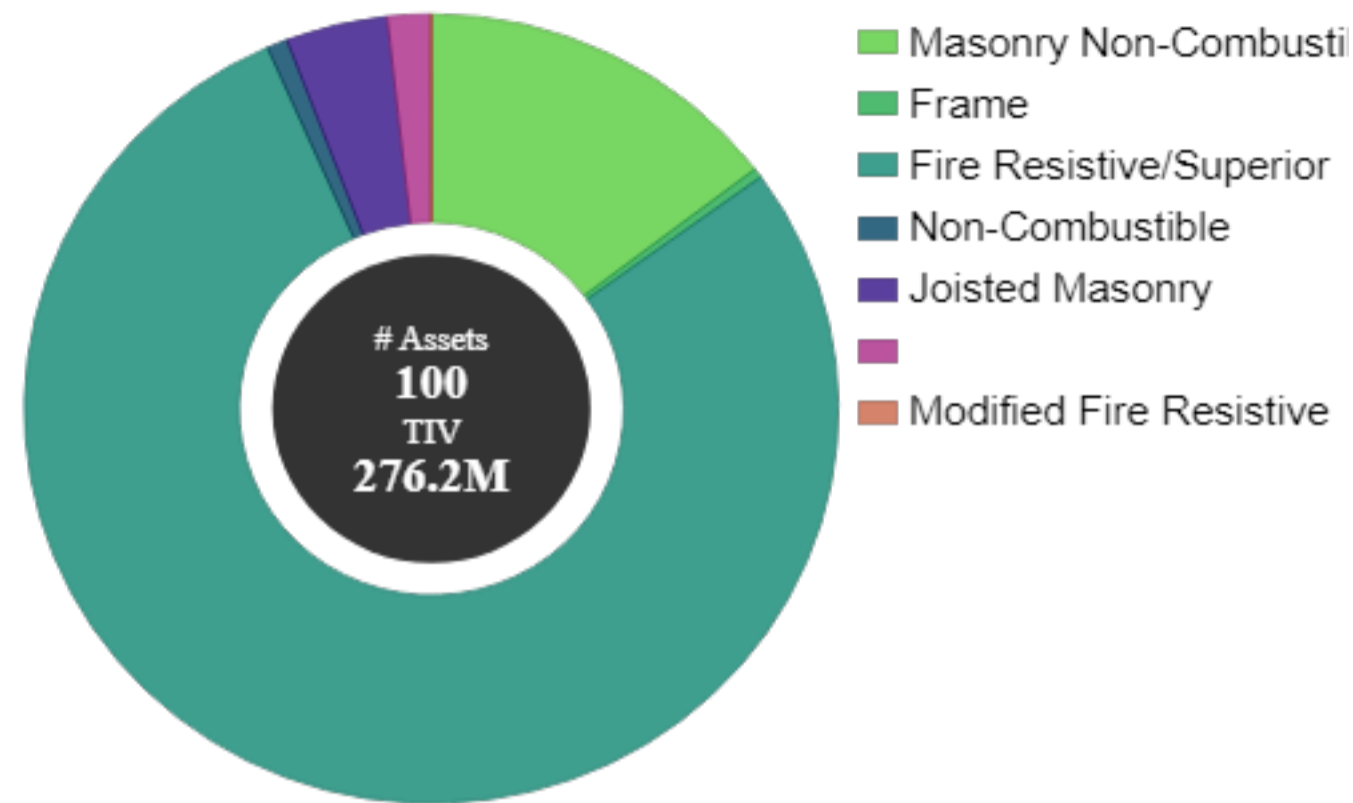


#	Asset Number	Asset Name	Address Line 1	TIVGeocoded Resolution
1	74	16041 E 700 North	16041 E 700 North	11.5M Interpolated Rooftop
2	69	16041 E 700 North	16041 E 700 North	10.8M Interpolated Rooftop
3	78	16041 E 700 North	16041 E 700 North	10.3M Interpolated Rooftop
4	77	16041 E 700 North	16041 E 700 North	8.1M Interpolated Rooftop
5	67	16041 E 700 North	16041 E 700 North	5.8M Interpolated Rooftop
6	96	1920 West Washingto...	1920 West Washington...	5.2M Community
7	73	16041 E 700 North	16041 E 700 North	4.9M Interpolated Rooftop
8	71	16041 E 700 North	16041 E 700 North	4.3M Interpolated Rooftop
9	72	16041 E 700 North	16041 E 700 North	4.2M Interpolated Rooftop
10	86	16041 E 700 North	16041 E 700 North	2.8M Interpolated Rooftop

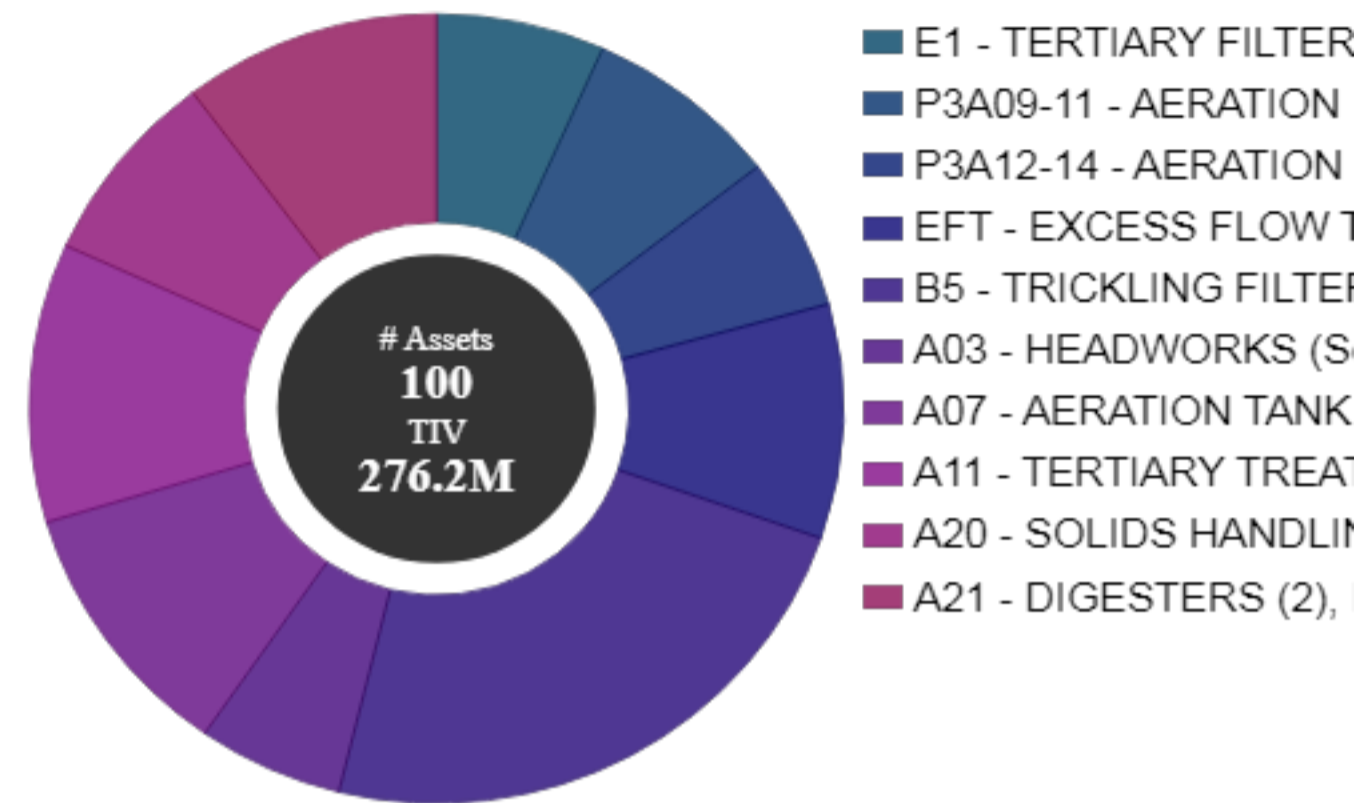


1 2015 W Oakland 2015 W Oakland Bloomington IL 61701-4707 US	TIV 23.7M	<ul style="list-style-type: none"> Buildings Contents Time Element 	
2 16041 E 700 North 16041 E 700 North Heyworth IL 61745-8953 US	TIV 11.5M	<ul style="list-style-type: none"> Contents Buildings Time Element 	
3 16041 E 700 North 16041 E 700 North Heyworth IL 61745-8953 US	TIV 10.8M	<ul style="list-style-type: none"> Buildings Contents Time Element 	
4 16041 E 700 North 16041 E 700 North Heyworth IL 61745-8953 US	TIV 10.3M	<ul style="list-style-type: none"> Buildings Contents Time Element 	
5 2015 W Oakland 2015 W Oakland Bloomington IL 61701-4707 US	TIV 9.7M	<ul style="list-style-type: none"> Buildings Contents Time Element 	

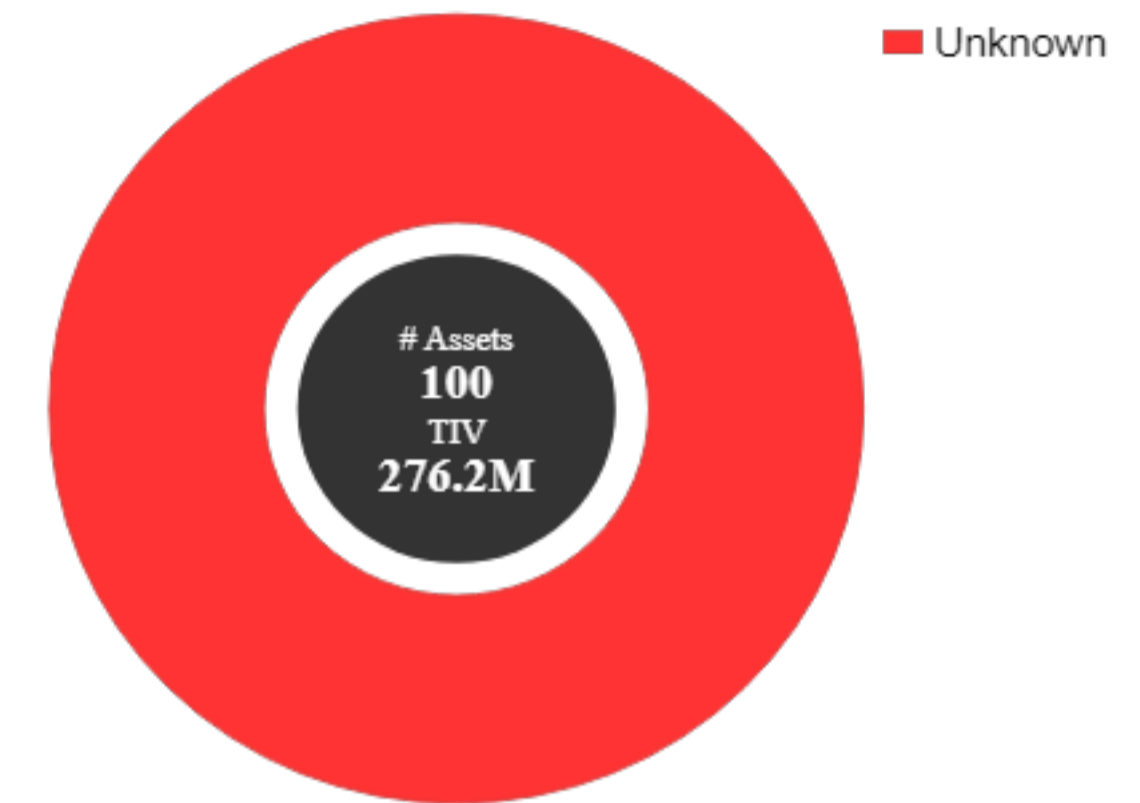
TIV by Construction



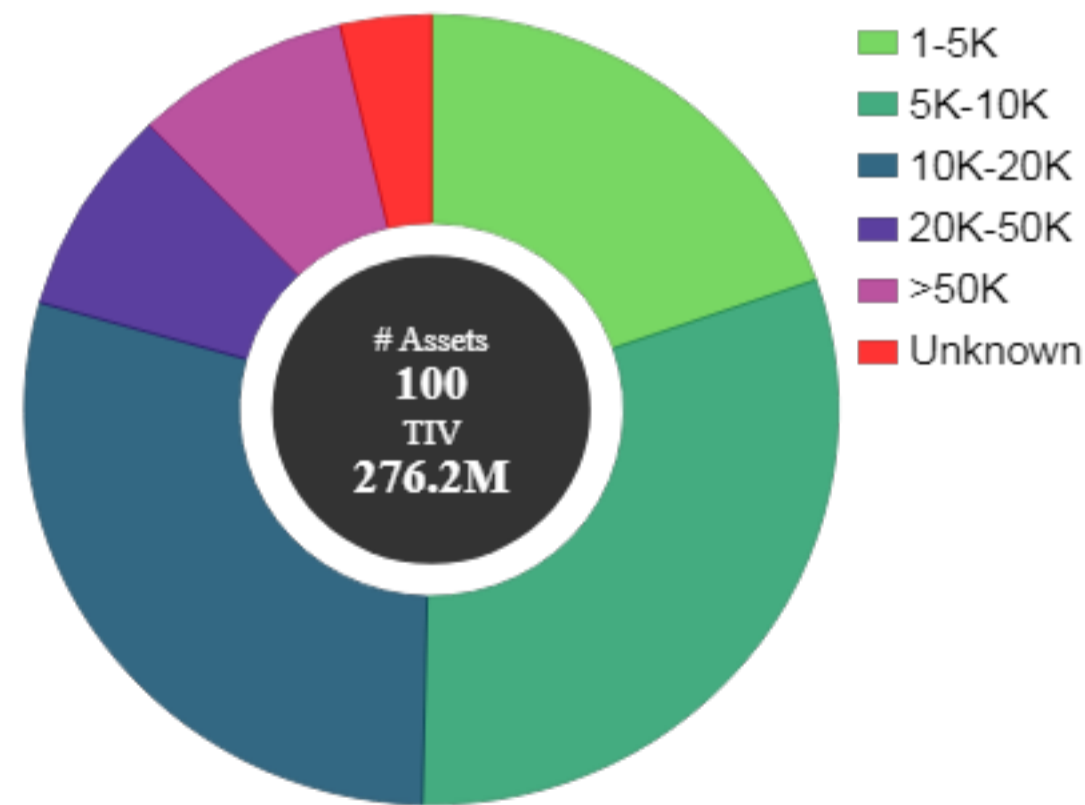
TIV by Occupancy



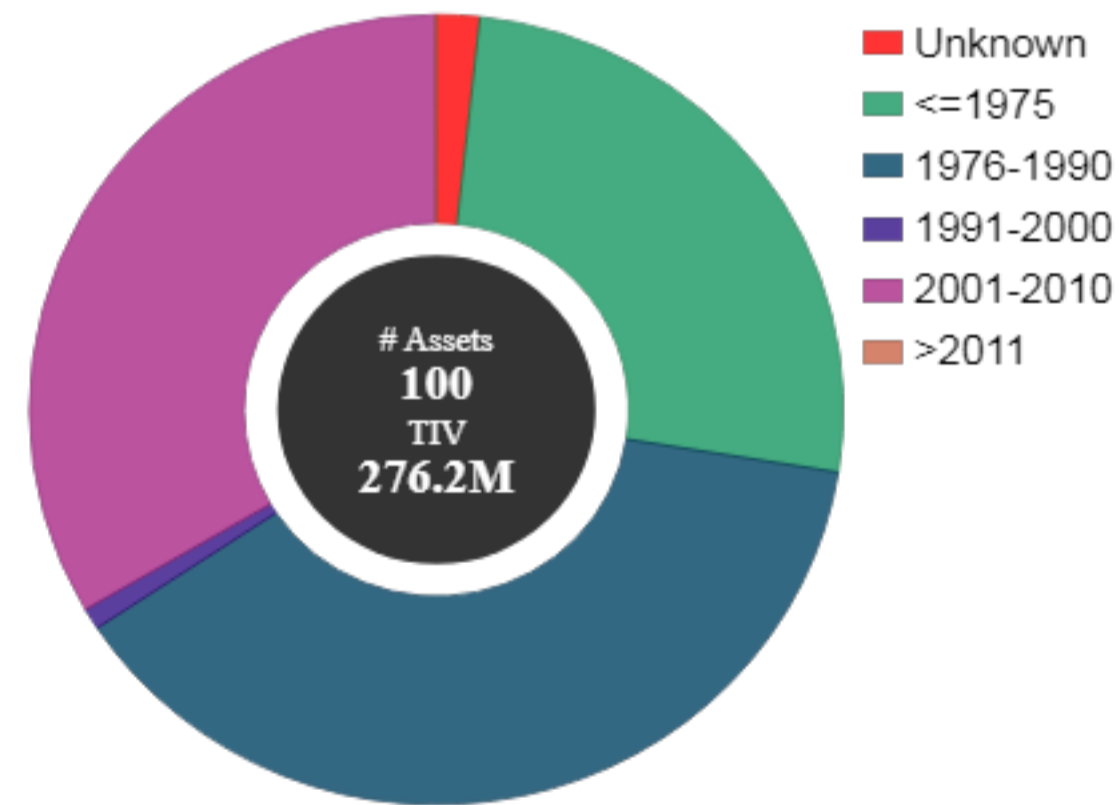
TIV by Fire Protection



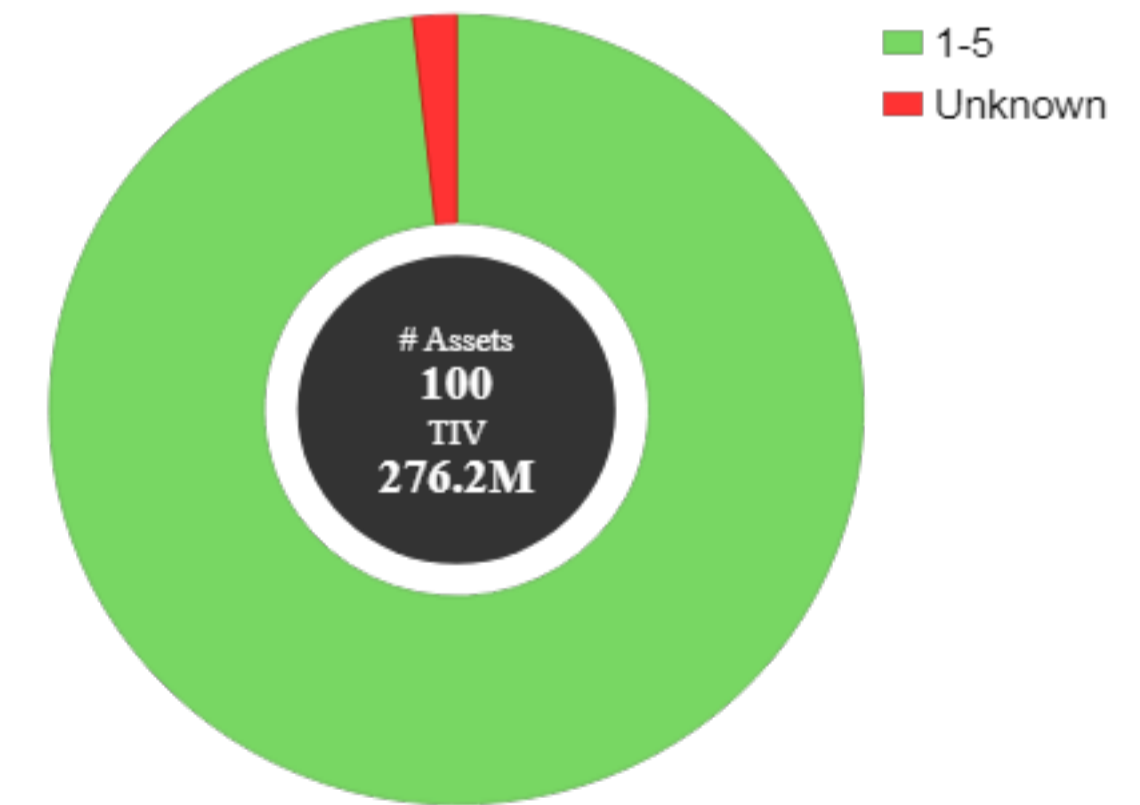
TIV by Square Footage Range



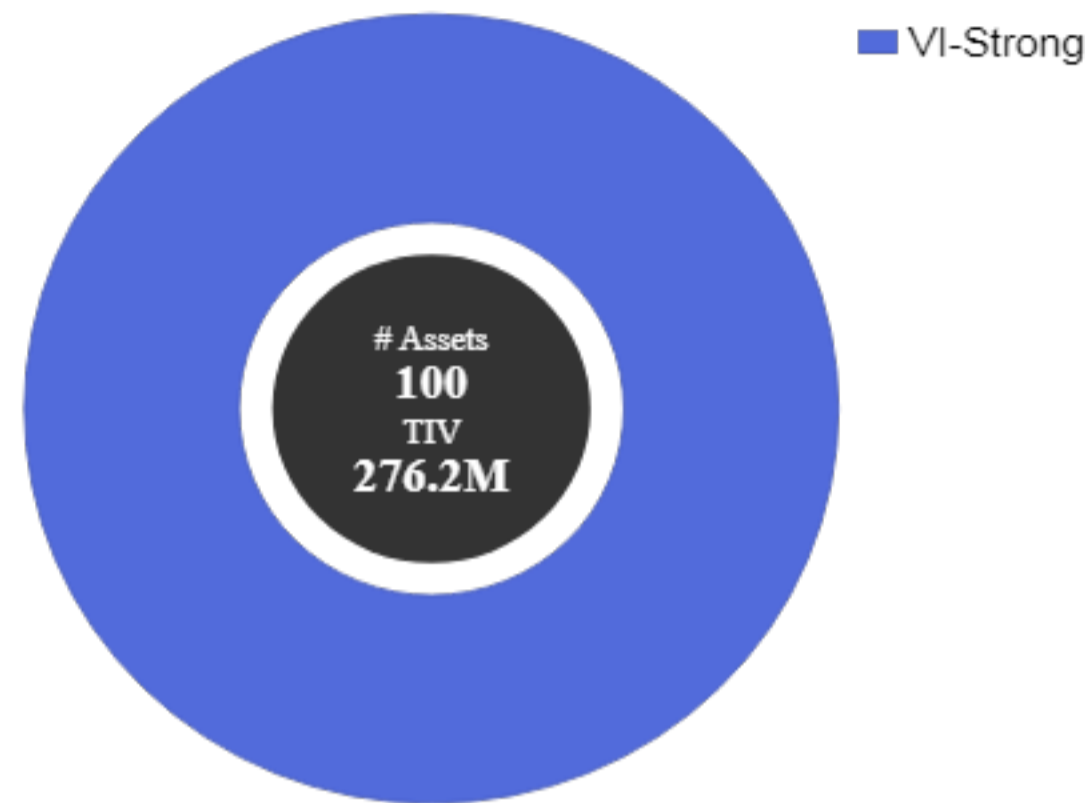
TIV by Year Built Range



TIV by # Stories Range

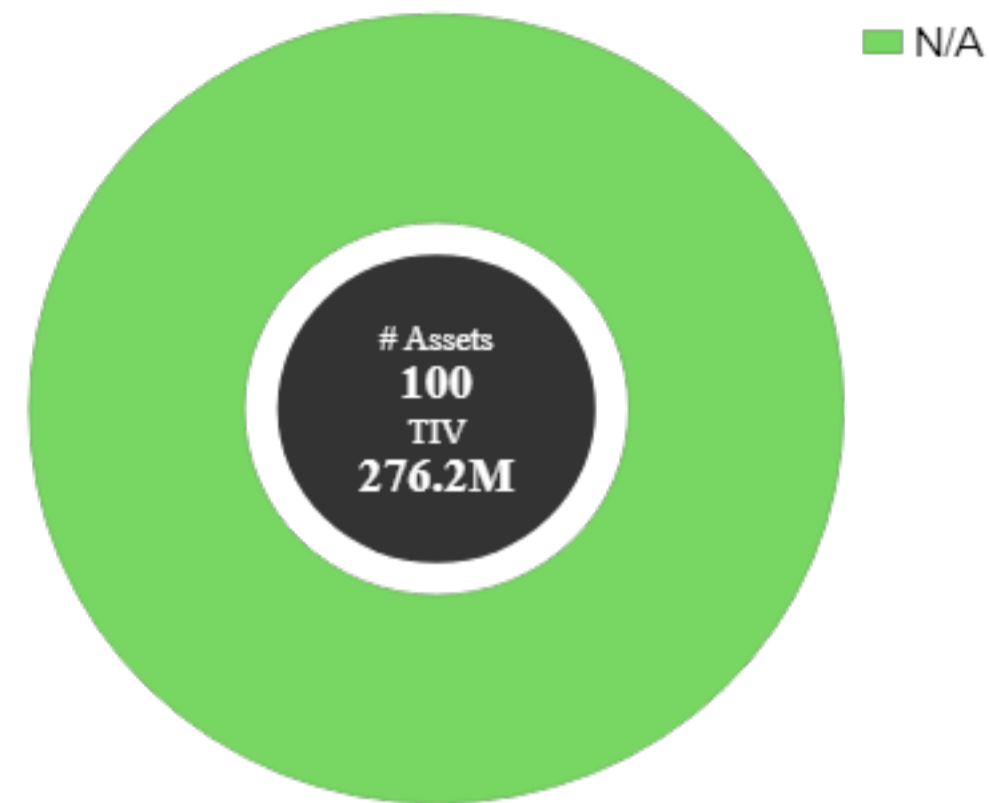


TIV by MMI

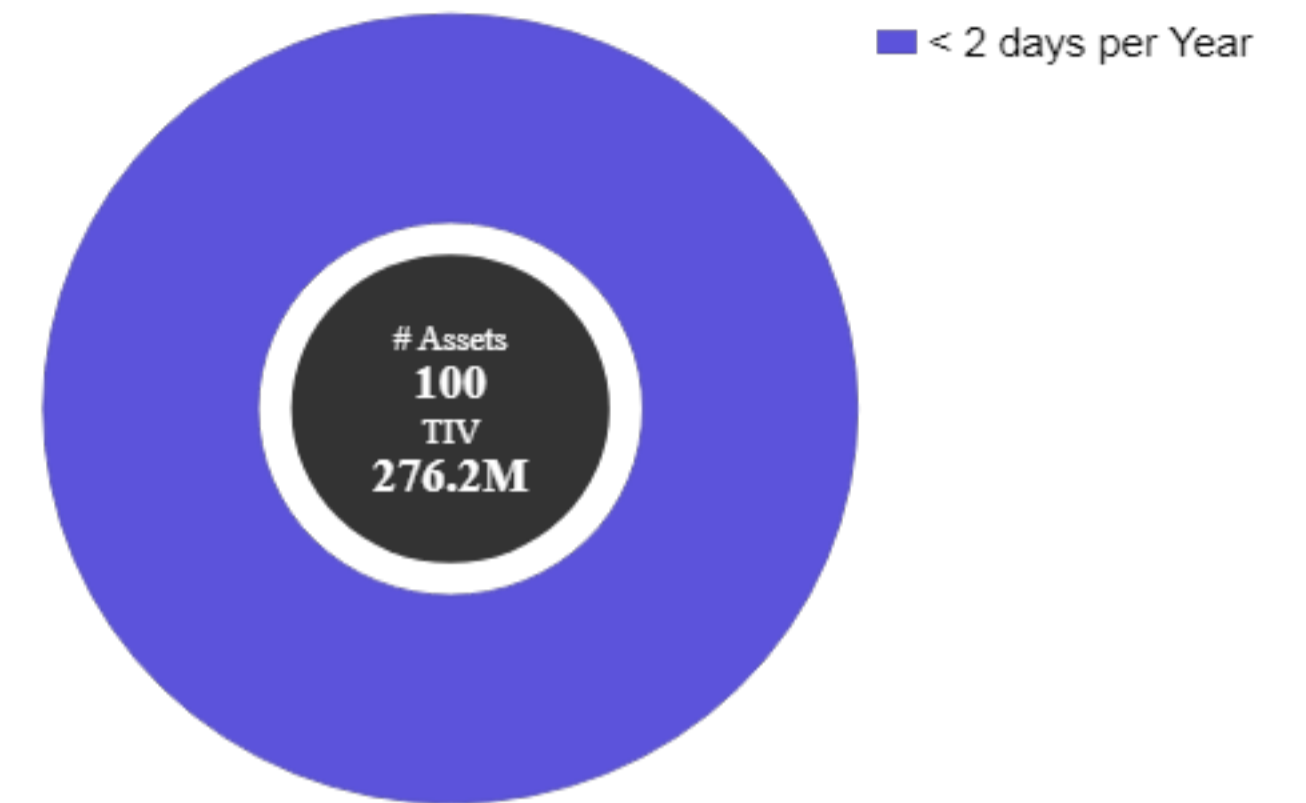


US National Seismic Hazard Map 2018 (MMI 2% in 50 Years - Rare)

TIV by Windspeed 500-Yr Peak Gust Range

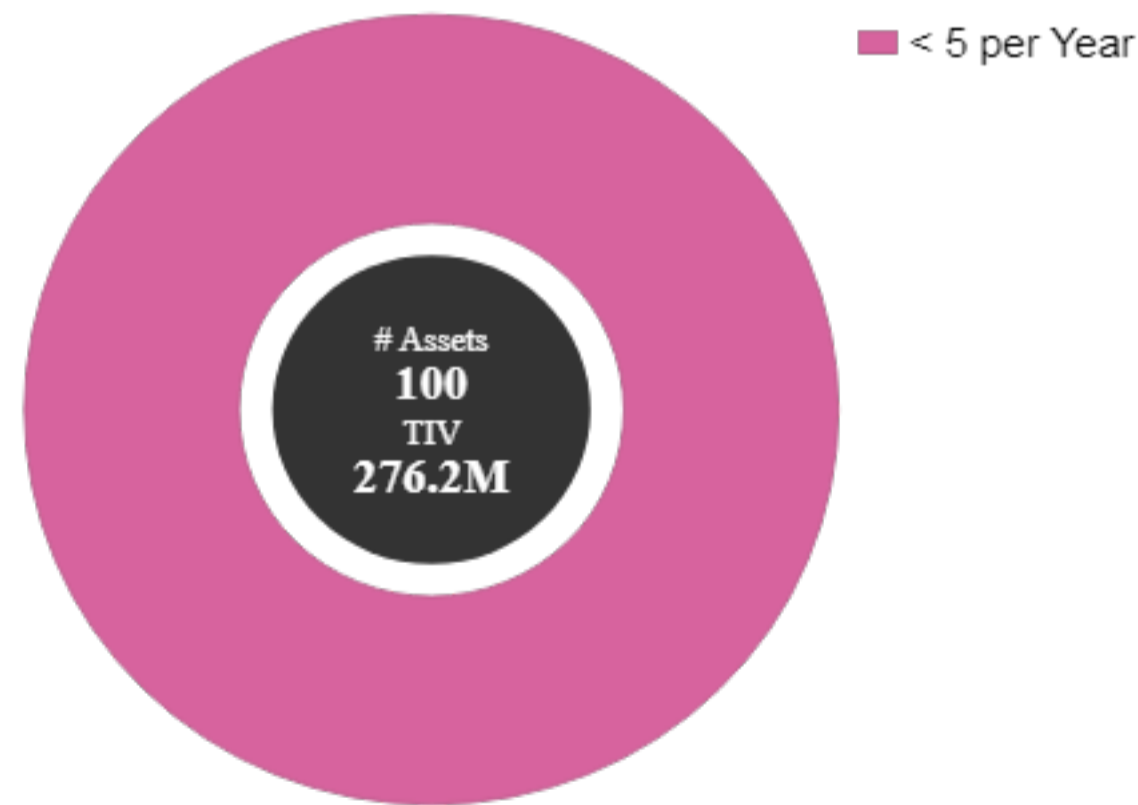


TIV by Annual Occurrence Frequency



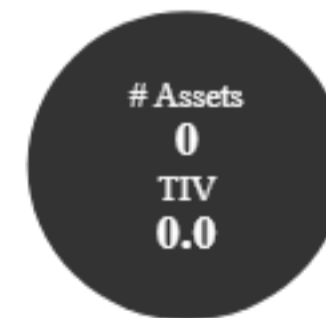
66-Year Historical Hail Days Per Year (size >= 1inch)

TIV by Annual Occurrence Frequency



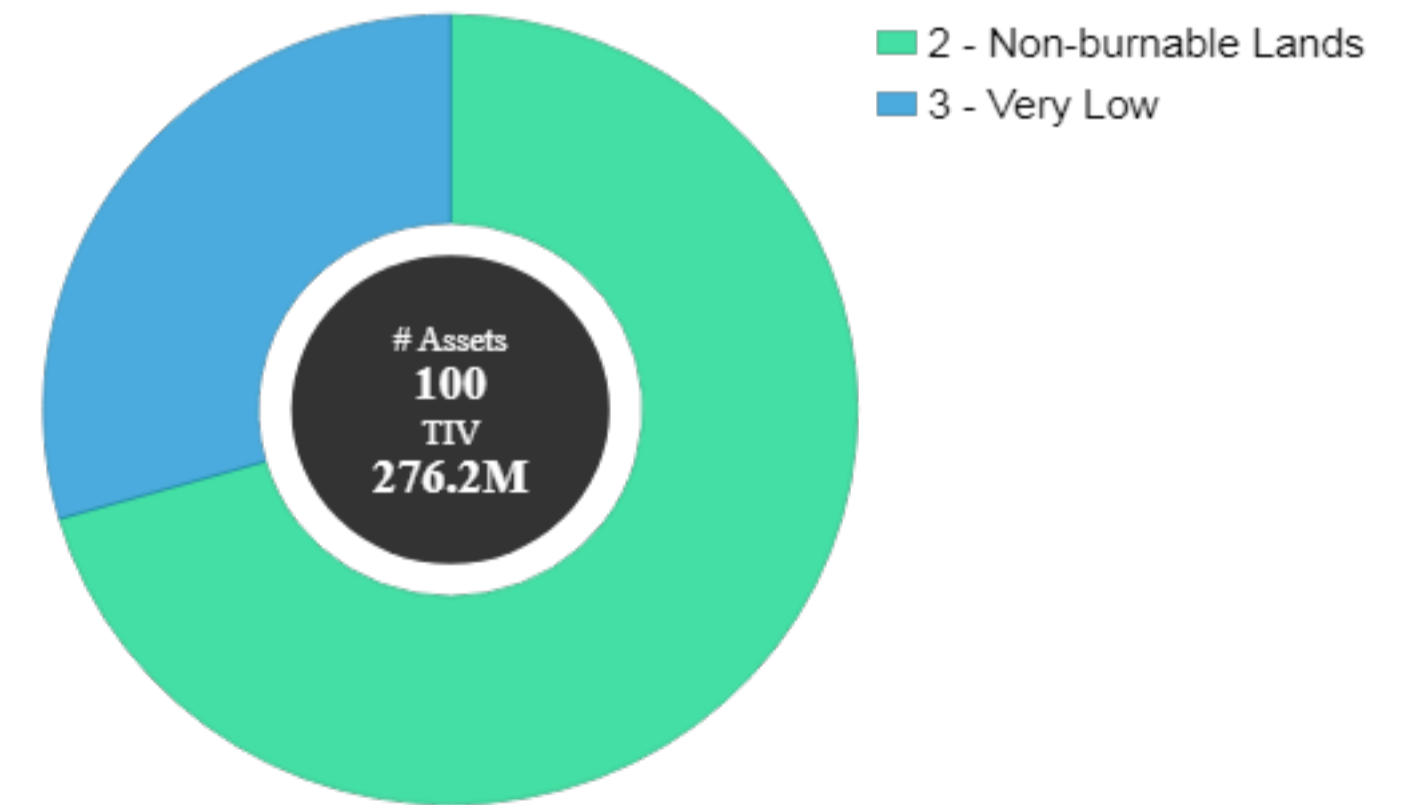
71-Year Historical Tornado Occurrences Per Year (>=EF0 strength)

TIV by Surge Height(Ft)



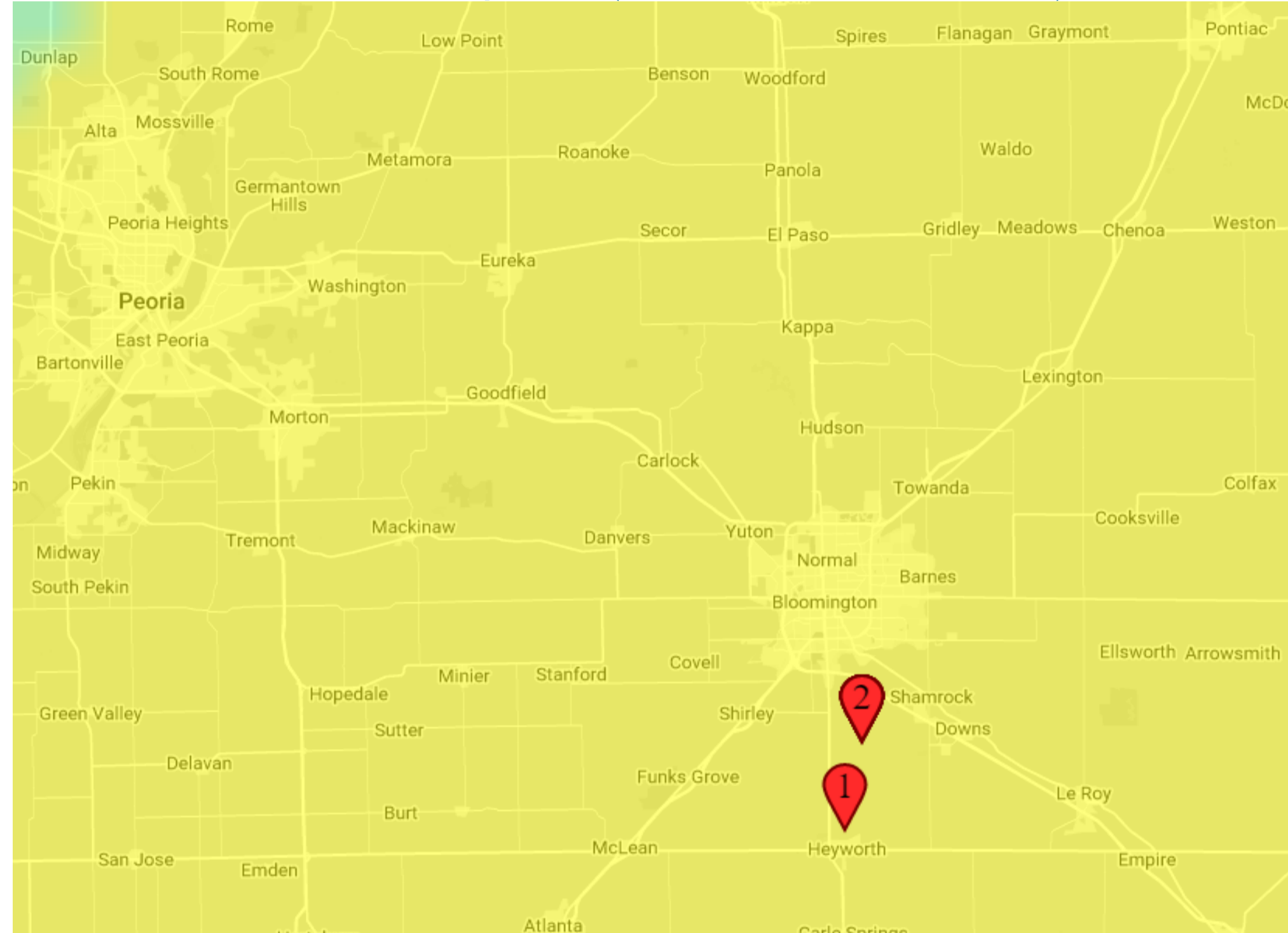
Maximum Storm Surge at High Tide from up to Cat 5 Hurricanes

TIV by Wildfire Hazard Potential Classified



US Wildfire Hazard Potential (2018 Version)

US National Seismic Hazard Map 2018 (MMI 2% in 50 Years - Rare)



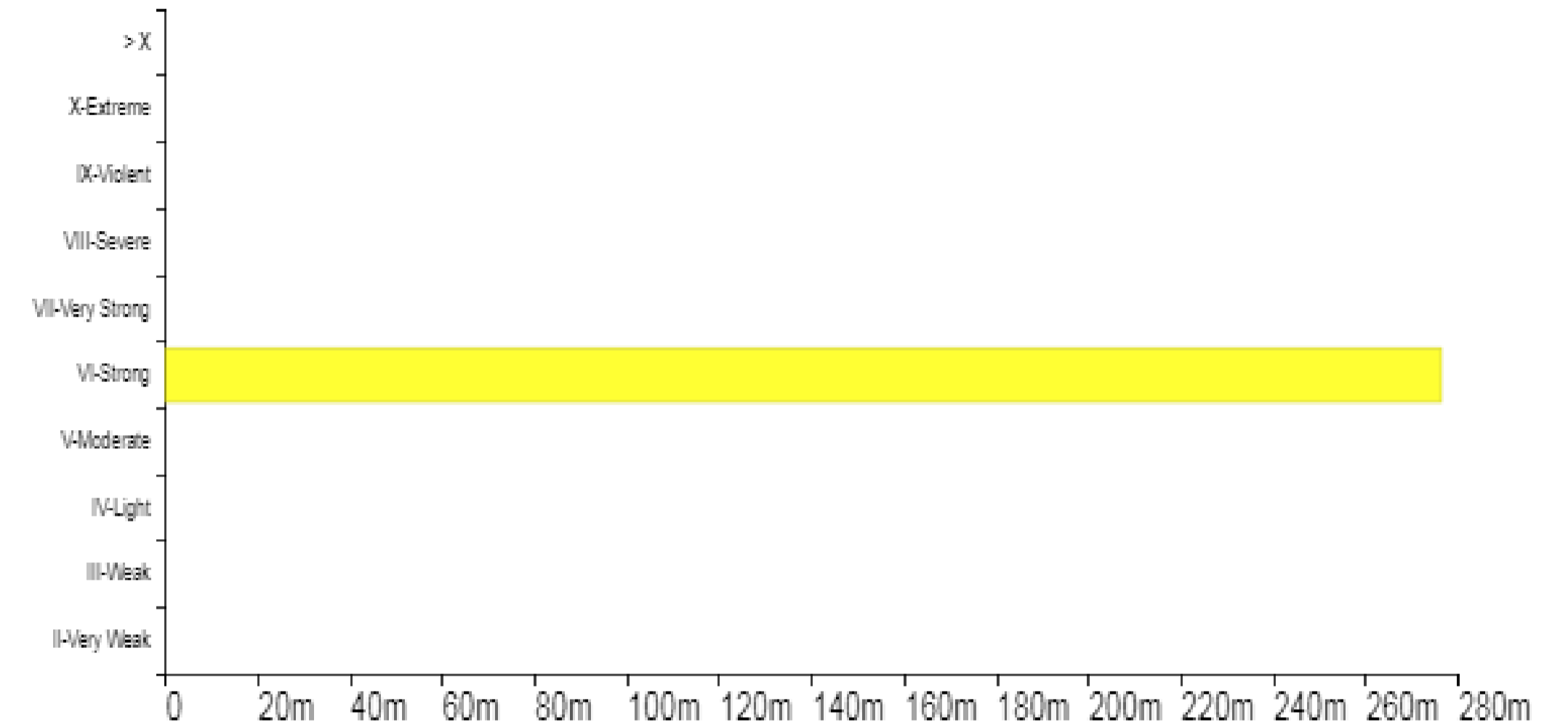
2018 Modified Mercalli Intensity (MMI) hazard map of the conterminous United States, showing estimates of earthquake shaking in terms of 2% probability of exceedance in 50 years (rare). The updated model represents an assessment of the best available science in earthquake hazards and incorporates new findings on earthquake ground shaking,
Source: USGS



#Assets
100 of 100

TIV
276.2M of 276.2M
TIV by MMI

Currency
USD

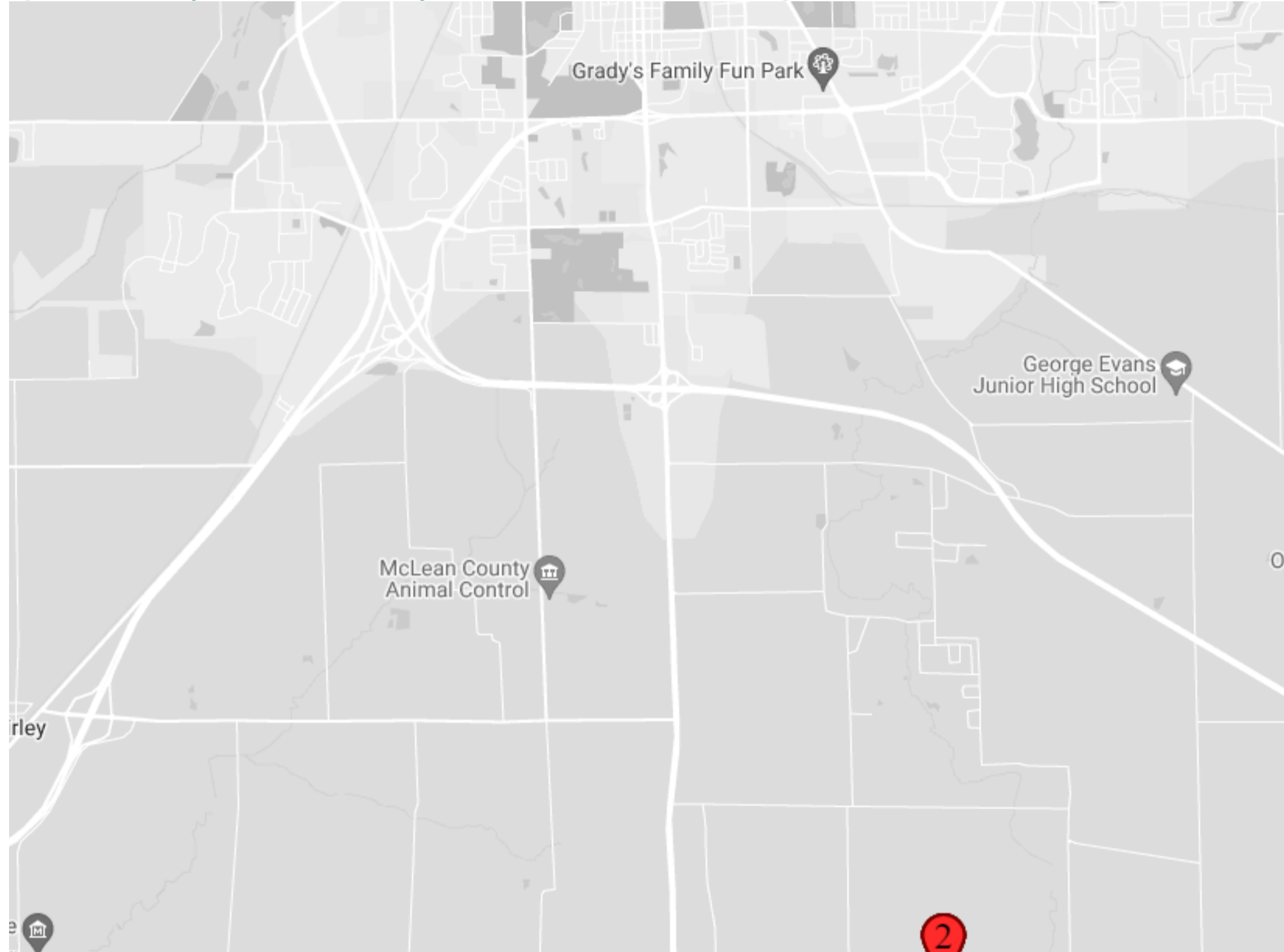


#	Asset Number	Asset Name	Address Line 1	Intensity	TIV
1	98	Lincoln& Bunn Streets	Lincoln& Bunn Streets	5.8	42.2K
2	74	16041 E 700 North	16041 E 700 North	5.8	11.5M
3	69	16041 E 700 North	16041 E 700 North	5.8	10.8M
4	78	16041 E 700 North	16041 E 700 North	5.8	10.3M
5	77	16041 E 700 North	16041 E 700 North	5.8	8.1M
6	67	16041 E 700 North	16041 E 700 North	5.8	5.8M
7	73	16041 E 700 North	16041 E 700 North	5.8	4.9M
8	71	16041 E 700 North	16041 E 700 North	5.8	4.3M
9	72	16041 E 700 North	16041 E 700 North	5.8	4.2M
10	86	16041 E 700 North	16041 E 700 North	5.8	2.8M

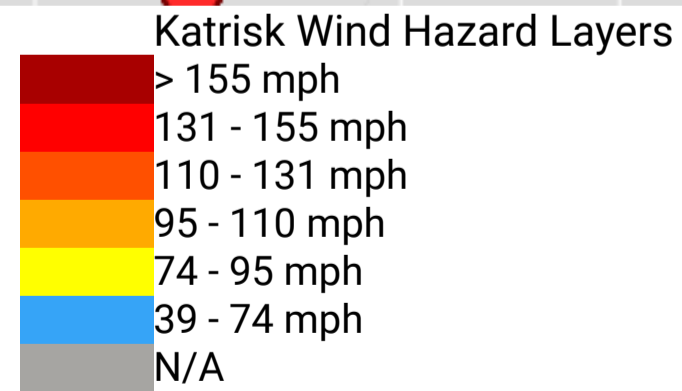
NORTH ATLANTIC WINDSTORM HAZARD

WHICH LOCATIONS HAVE THE HIGHEST WINDSPEEDS FOR A GIVEN RETURN PERIOD?

Top Assets by KatRisk 500-yr Return Period Windspeed



Shows the windspeed that is likely to be exceeded once every 500 years on average (Represents a 0.2% chance of occurring in any given year). Source: KatRisk

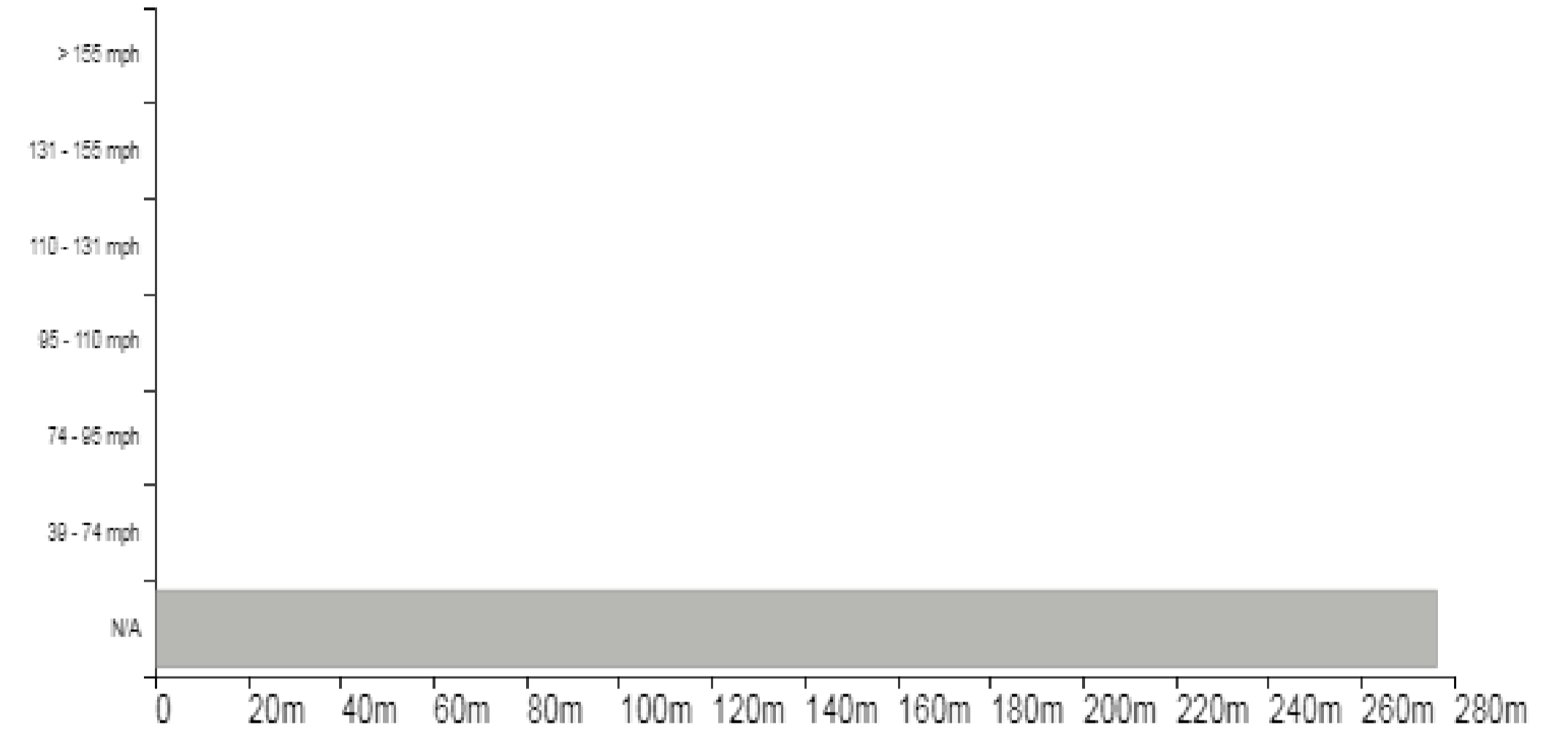


#Assets
100

TIV
276.2M

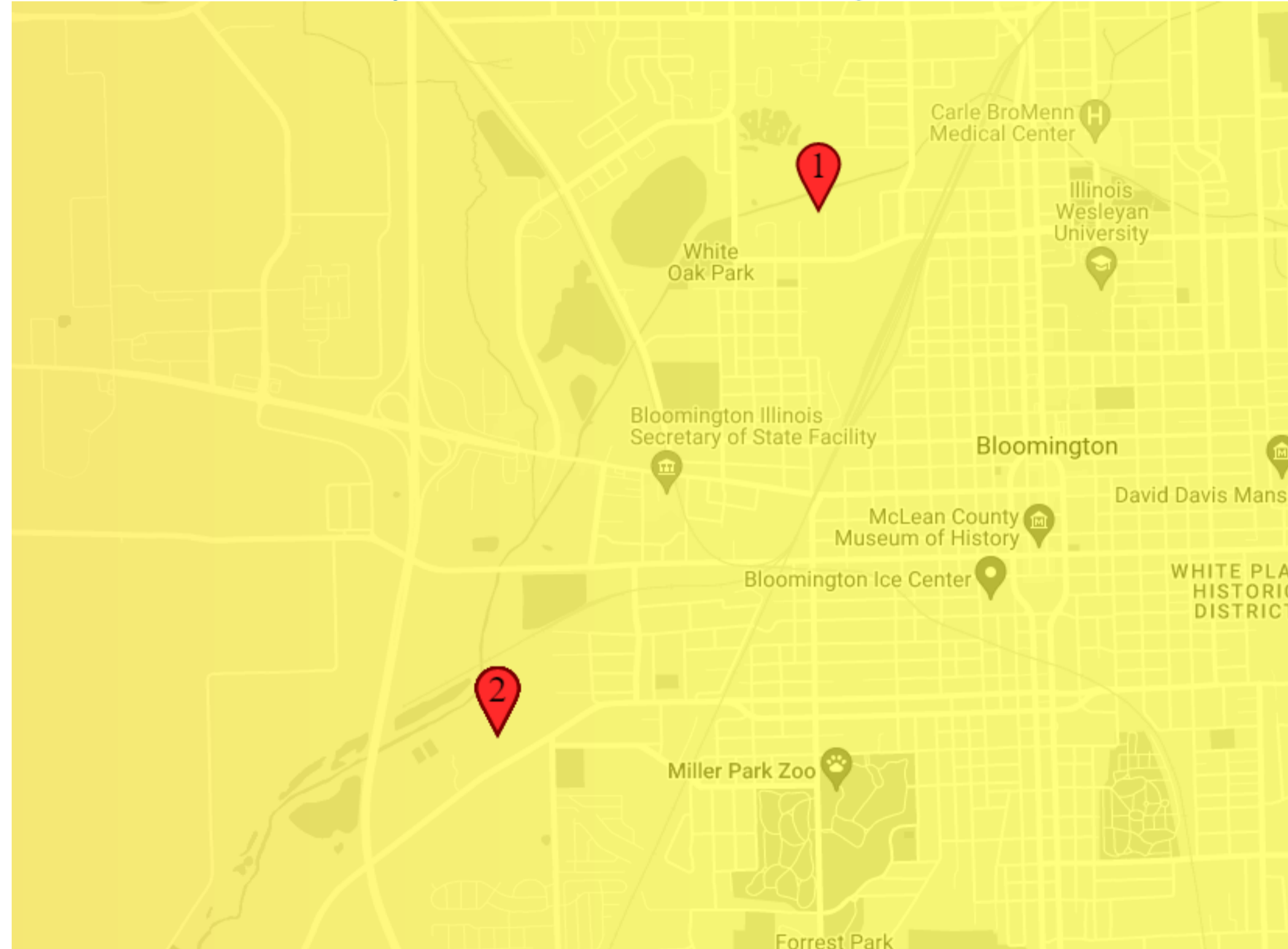
Currency
USD

TIV by Windspeed 500-Yr Peak Gust Range



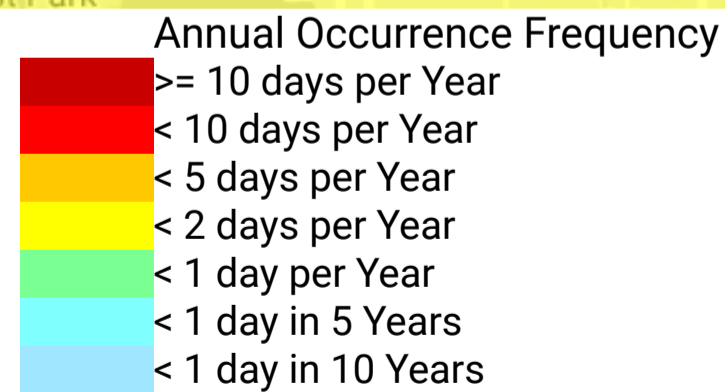
#	Asset Number	Asset Name	Address Line 1	Windspeed 500-Yr Pe...	TIV
1	43	2015 W Oakland	2015 W Oakland		23.7M
2	74	16041 E 700 North	16041 E 700 North		11.5M
3	69	16041 E 700 North	16041 E 700 North		10.8M
4	78	16041 E 700 North	16041 E 700 North		10.3M
5	35	2015 W Oakland	2015 W Oakland		9.7M
6	77	16041 E 700 North	16041 E 700 North		8.1M
7	31	2015 W Oakland	2015 W Oakland		7.8M
8	16	2015 W Oakland	2015 W Oakland		6.7M
9	32	2015 W Oakland	2015 W Oakland		6.3M
10	67	16041 E 700 North	16041 E 700 North		5.8M

62-Year Historical Hail Days Per Year of size 1-inch or greater



Provides the average number of days per year, for which there were one or more hails of size 1 inch and above, approximately 25 miles of historical hail point. These average days are based on analysis of 1955 to 2020 historical data sourced from NOAA's Storm Prediction Center (SPC)

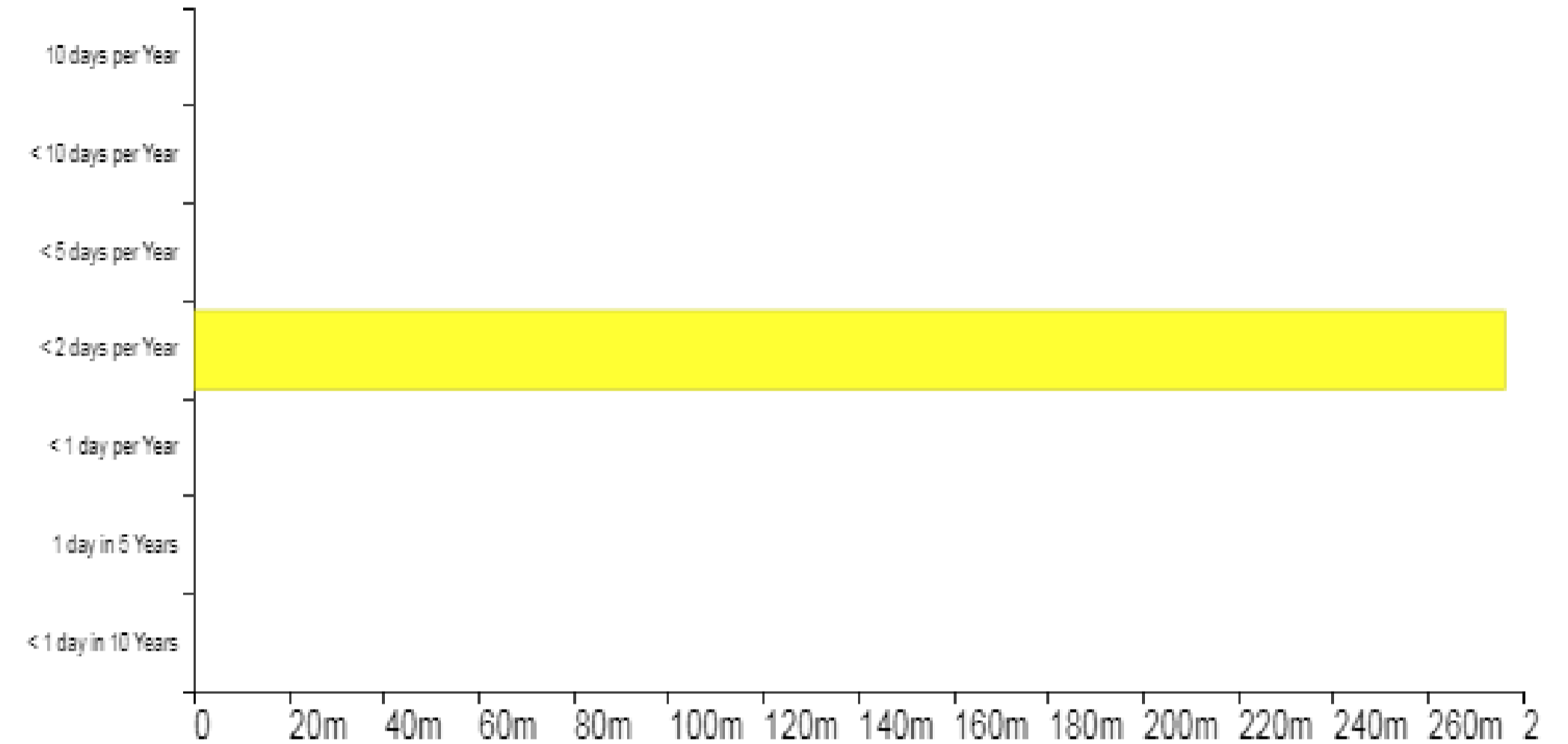
Source: NOAA



#Assets
100 of 100

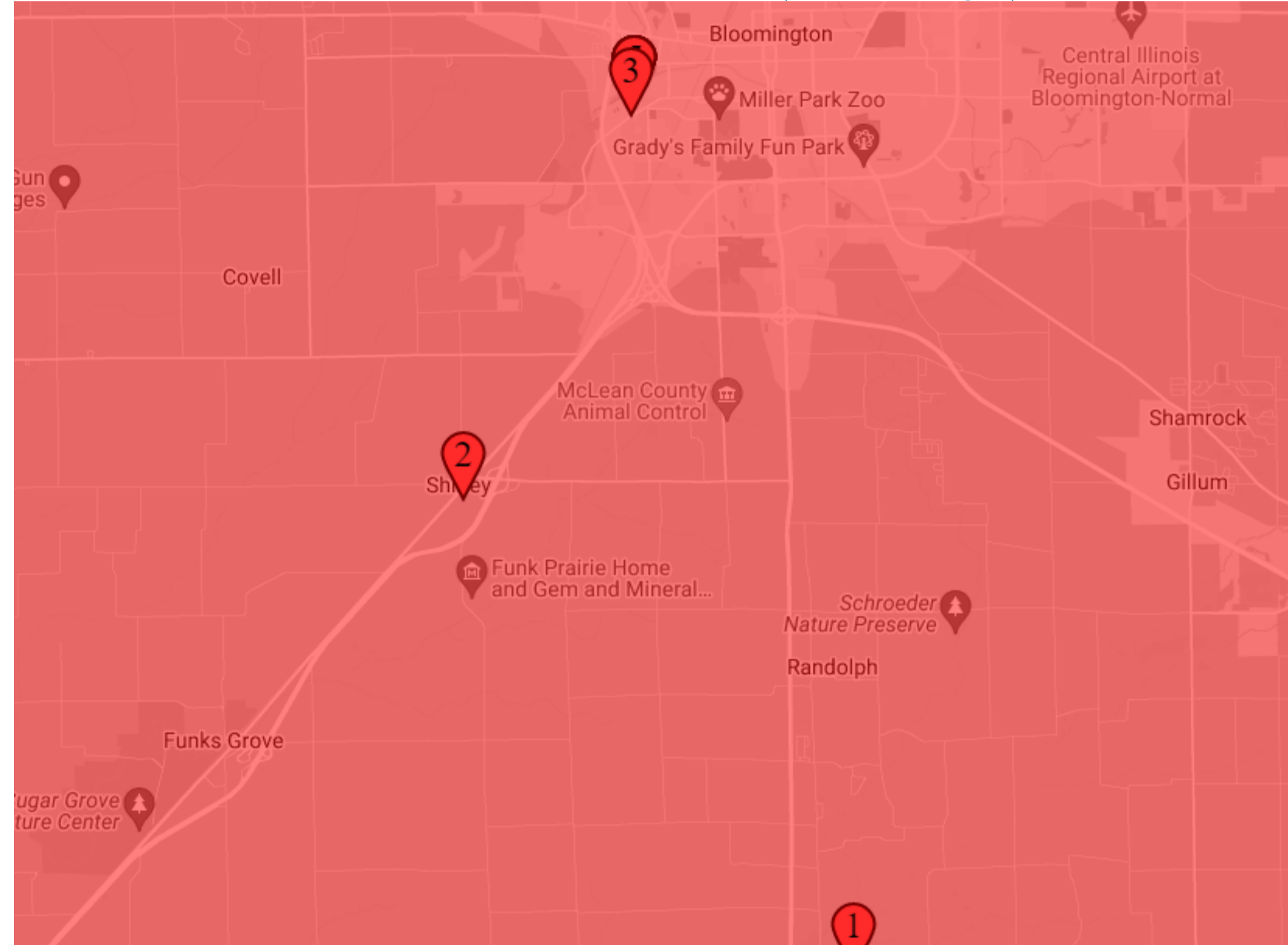
TIV
276.2M of 276.2M
TIV by Annual Occurrence Frequency

Currency
USD



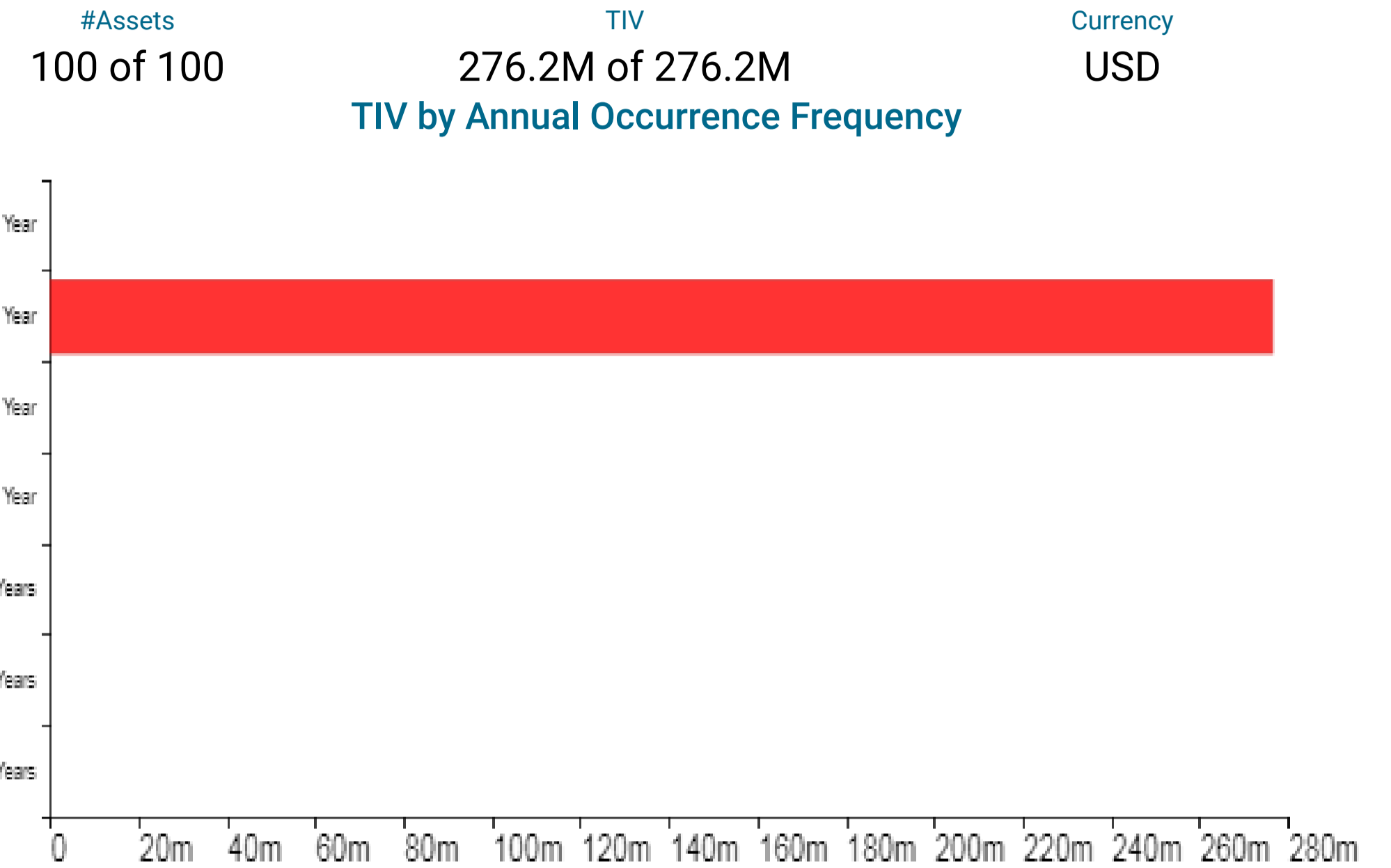
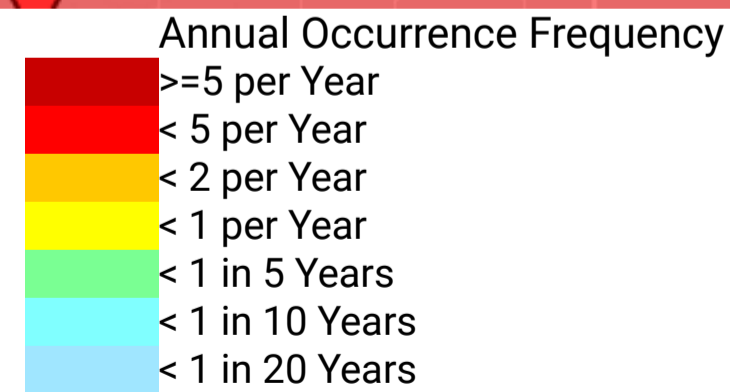
#	Asset Number	Asset Name	Address Line 1	Intensity	TIV
1	97	1520 Calhoun Street	1520 Calhoun Street	1.8	141.7K
2	43	2015 W Oakland	2015 W Oakland	1.7	23.7M
3	35	2015 W Oakland	2015 W Oakland	1.7	9.7M
4	31	2015 W Oakland	2015 W Oakland	1.7	7.8M
5	16	2015 W Oakland	2015 W Oakland	1.7	6.7M
6	32	2015 W Oakland	2015 W Oakland	1.7	6.3M
7	44	2015 W Oakland	2015 W Oakland	1.7	5.8M
8	45	2015 W Oakland	2015 W Oakland	1.7	5.8M
9	25	2015 W Oakland	2015 W Oakland	1.7	5.7M
10	56	2015 W Oakland	2015 W Oakland	1.7	5.5M

65-Year Historical Tornado Occurrences Per Year (>EF0 strength)



Provides the annual occurrence frequency of tornadoes, of strength EF0 and higher, approximately 25 miles of historical tornado track. These frequencies are based on analysis of 1950 to 2020 historical data sourced from NOAA's Storm Prediction Center (SPC)

Source: NOAA

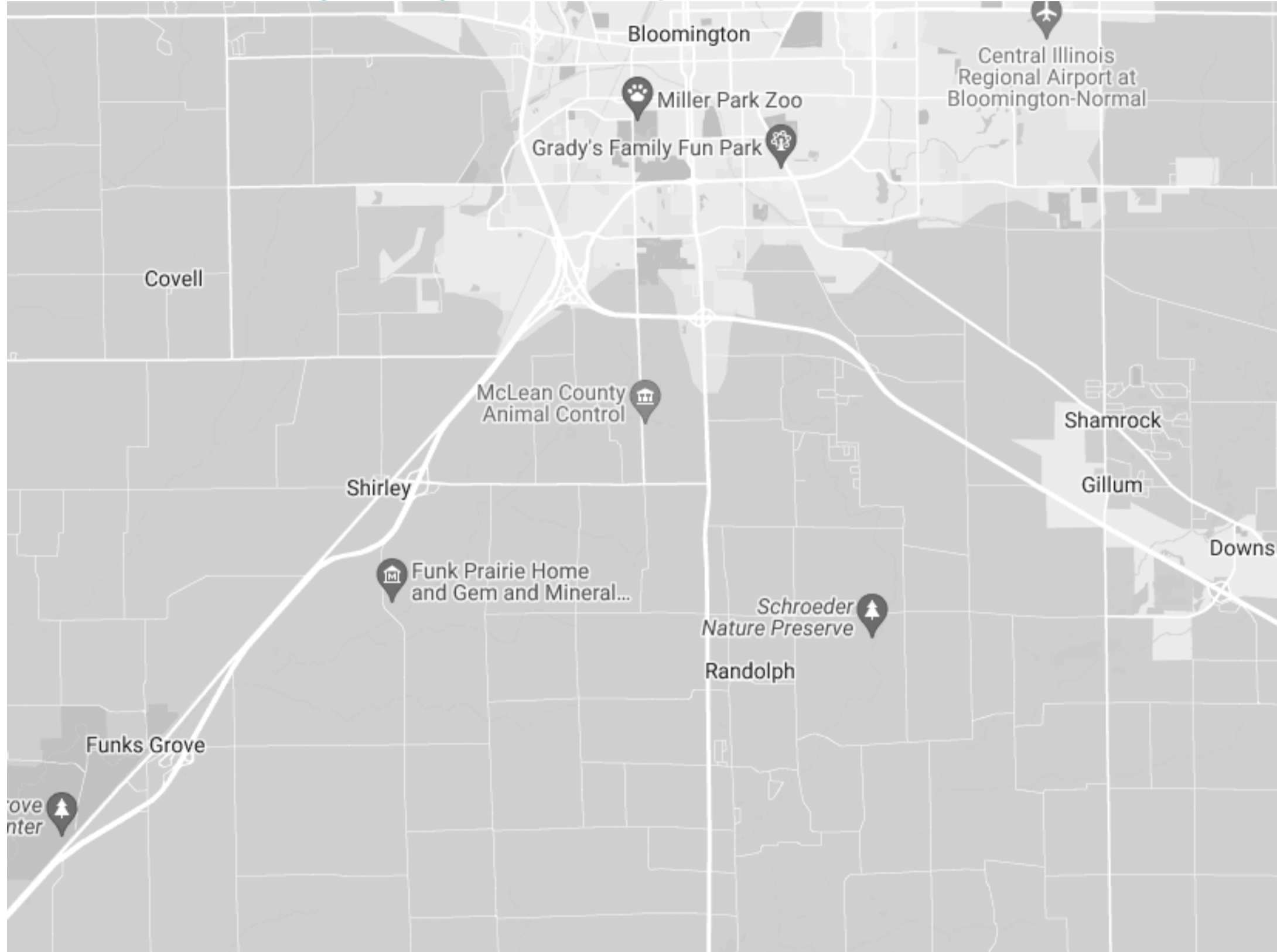


#	Asset Number	Asset Name	Address Line 1	Intensity	TIV
1	98	Lincoln& Bunn Streets	Lincoln& Bunn Streets	2.5	42.2K
2	99	13458 E 850 North Rd	13458 E 850 North Rd	2.5	380.6K
3	100	2008 W Oakland Ave	2008 W Oakland Ave	2.5	83.2K
4	97	1520 Calhoun Street	1520 Calhoun Street	2.5	141.7K
5	43	2015 W Oakland	2015 W Oakland	2.4	23.7M
6	35	2015 W Oakland	2015 W Oakland	2.4	9.7M
7	31	2015 W Oakland	2015 W Oakland	2.4	7.8M
8	16	2015 W Oakland	2015 W Oakland	2.4	6.7M
9	32	2015 W Oakland	2015 W Oakland	2.4	6.3M
10	44	2015 W Oakland	2015 W Oakland	2.4	5.8M

NORTH ATLANTIC STORM SURGE HAZARD

WHICH LOCATIONS WOULD EXPERIENCE THE HIGHEST SURGE DEPTHS IN A CAT 5 HURRICANE?

Maximum Storm Surge at High Tide from up to Cat 5 Hurricanes



#Assets
0 of 100

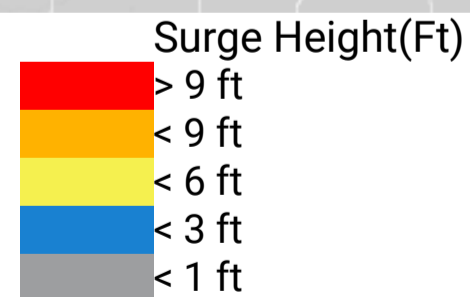
TIV
0.0 of 276.2M

Currency
USD

No data

Depicts the Maximum Envelope of High Water, or MOM, by taking the maximum of different scenarios up to Category 5 strength under High Tide conditions. Based on the Sea, Lake and Overland Surges from Hurricanes (SLOSH) model, which is a computerized numerical model developed by the National Weather Service (NWS) to estimate storm surge heights resulting from historical, hypothetical, or predicted hurricanes by taking into account the atmospheric pressure, size, forward speed, and track data. For more: <http://www.nhc.noaa.gov/surge/slosh.php>

Source: NOAA



No Assets

US WILDFIRE HAZARD POTENTIAL

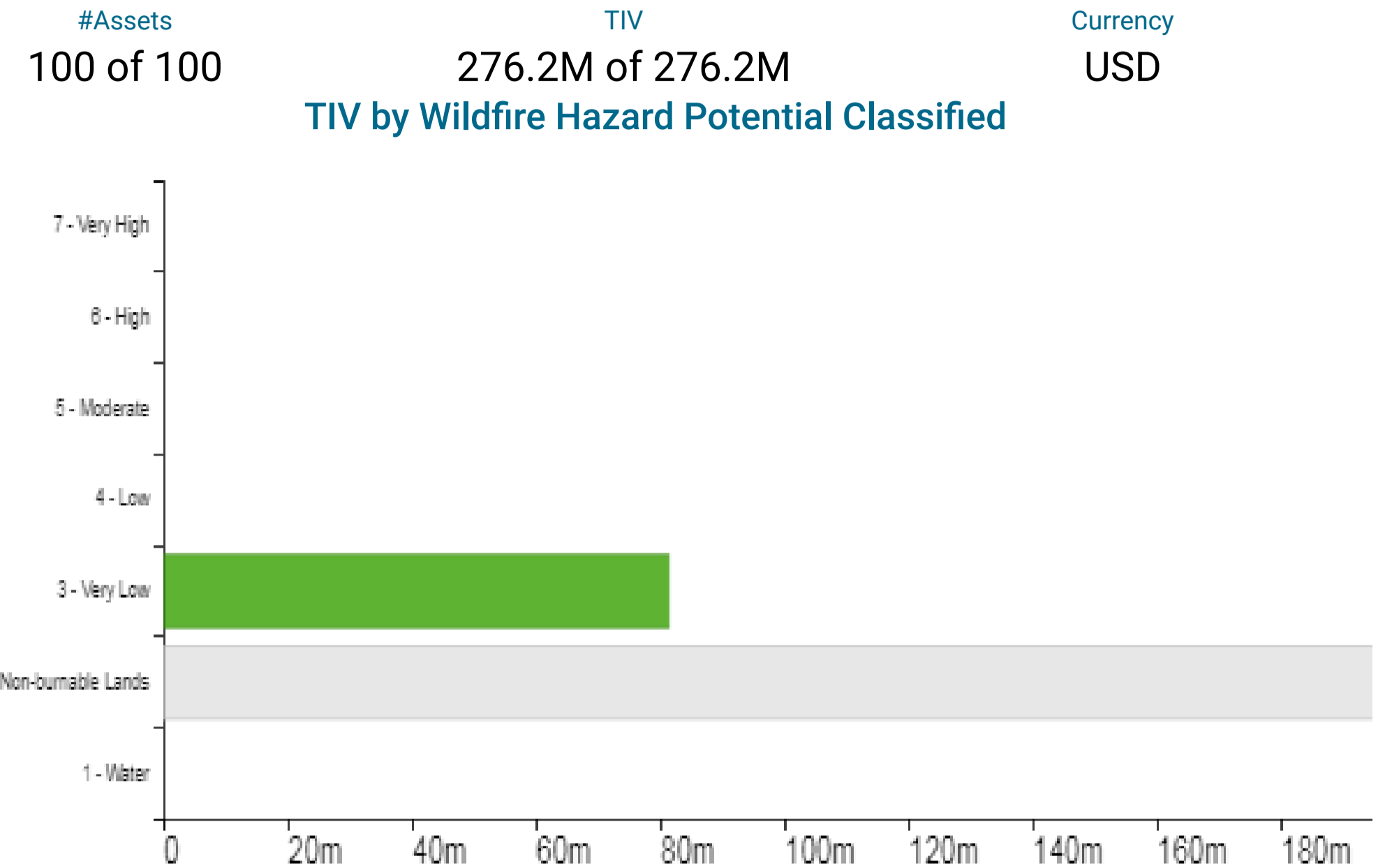
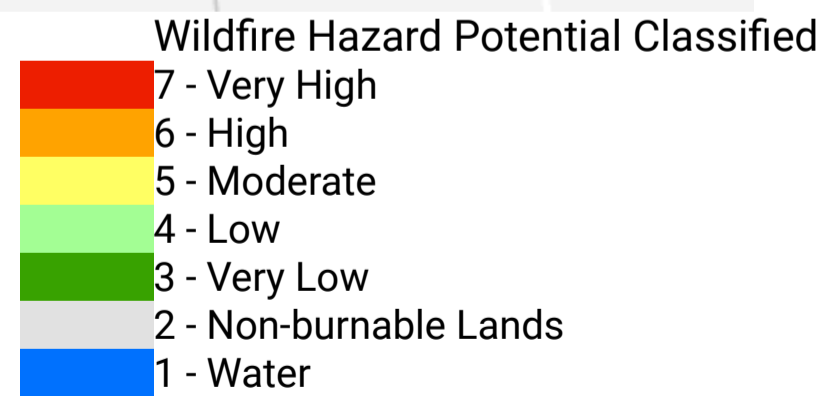
WHICH LOCATIONS HAVE GREATER POTENTIAL RISK OF WILDFIRE?

US Wildfire Hazard Potential (2018 Version)



Shows Wildfire Hazard Potential (WHP) sourced from the USDA Forest Service Fire Modeling Institute. WHP is defined as 1 == Water, 2 == Non-burnable Lands (includes Developed Lands), 3 == Very Low, 4 == Low, 5 == Moderate, 6 == High, 7 == Very High. Areas mapped with higher WHP values represent fuels with a higher probability of experiencing torching, crowning, and other forms of extreme fire behavior under conducive weather conditions, based primarily on 2010 landscape conditions. The 2018 WHP map was built upon spatial estimates of wildfire likelihood and intensity generated in 2016 with the Large Fire Simulation system (FSim), as well as spati...

Source: USDA



#	Asset Number	Asset Name	Address Line 1	Intensity	TIV
1	74	16041 E 700 North	16041 E 700 North	3.0	11.5M
2	69	16041 E 700 North	16041 E 700 North	3.0	10.8M
3	78	16041 E 700 North	16041 E 700 North	3.0	10.3M
4	77	16041 E 700 North	16041 E 700 North	3.0	8.1M
5	67	16041 E 700 North	16041 E 700 North	3.0	5.8M
6	73	16041 E 700 North	16041 E 700 North	3.0	4.9M
7	71	16041 E 700 North	16041 E 700 North	3.0	4.3M
8	72	16041 E 700 North	16041 E 700 North	3.0	4.2M
9	86	16041 E 700 North	16041 E 700 North	3.0	2.8M
10	80	16041 E 700 North	16041 E 700 North	3.0	2.6M

HIGH RISK FEMA FLOOD ZONE EXPOSURE

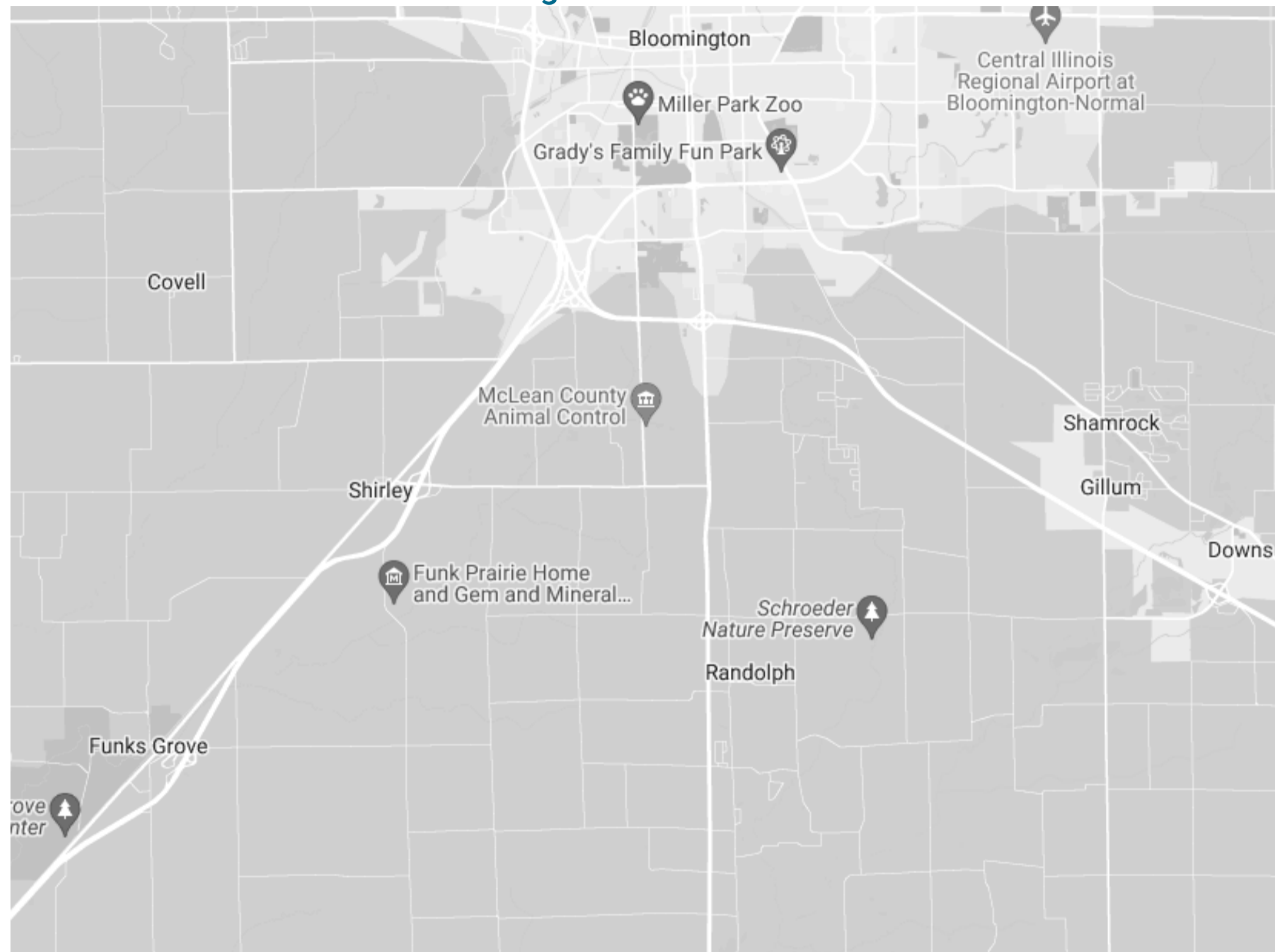
WHAT ARE EXPOSED VALUES AND LOCATIONS IN HIGH RISK FEMA FLOOD ZONES?

The top locations by Value in FEMA High Risk A or V Zones are shown below.
Distribution of values is shown at right

#Assets
0 of 100

TIV
0.0 of 276.2M

Currency
USD



No data

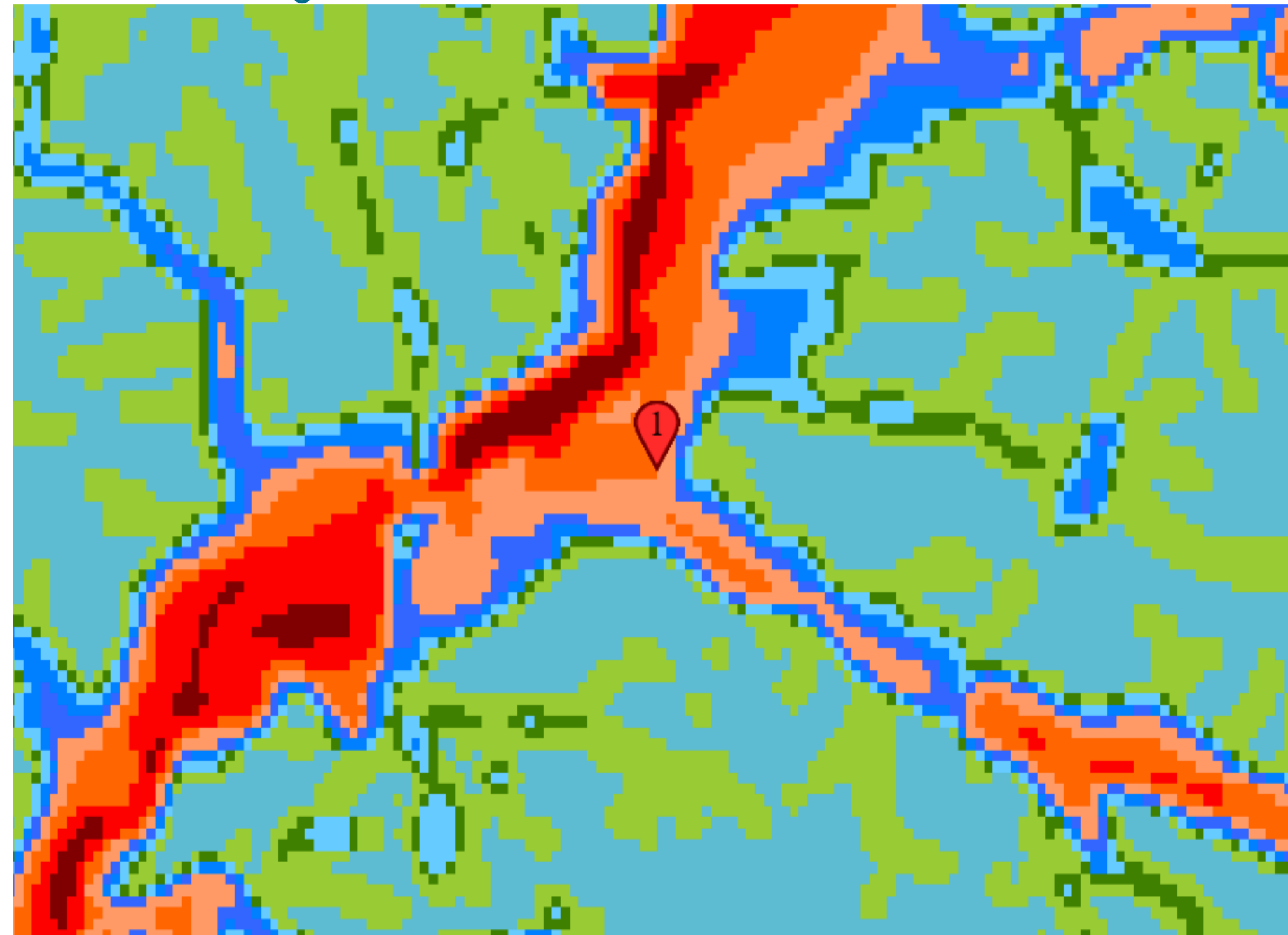
Locations in High Risk FEMA Zones are more likely to be mitigated against risk, depending on age.

No Assets

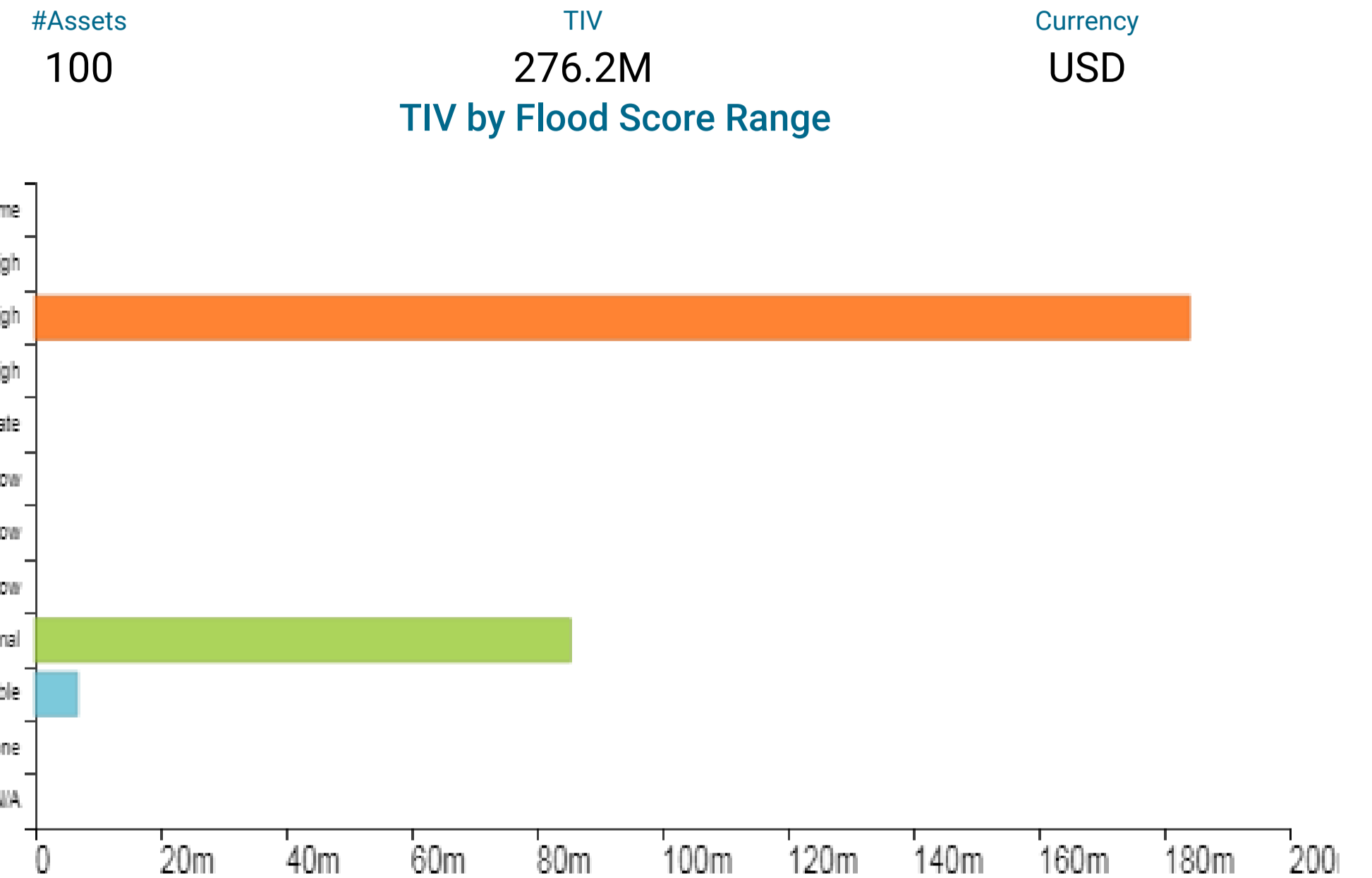
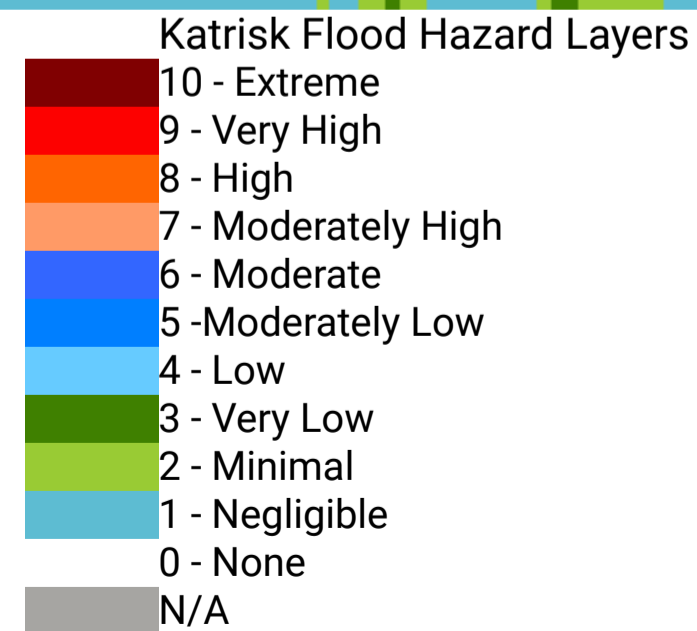
INLAND FLOOD EXPOSURE PROFILE

WHAT ARE EXPOSED VALUES AND LOCATIONS EXPOSED TO INLAND FLOOD RISK?

The top 10 locations by KatRisk Flood Score are shown below. The distribution of values is shown at right.



Note that the locations that show up here should ideally be geo-coded to rooftop level resolution, and should be visually inspected on the map to ensure they are correctly geo-located. A move of 10m could change the Flood Score.

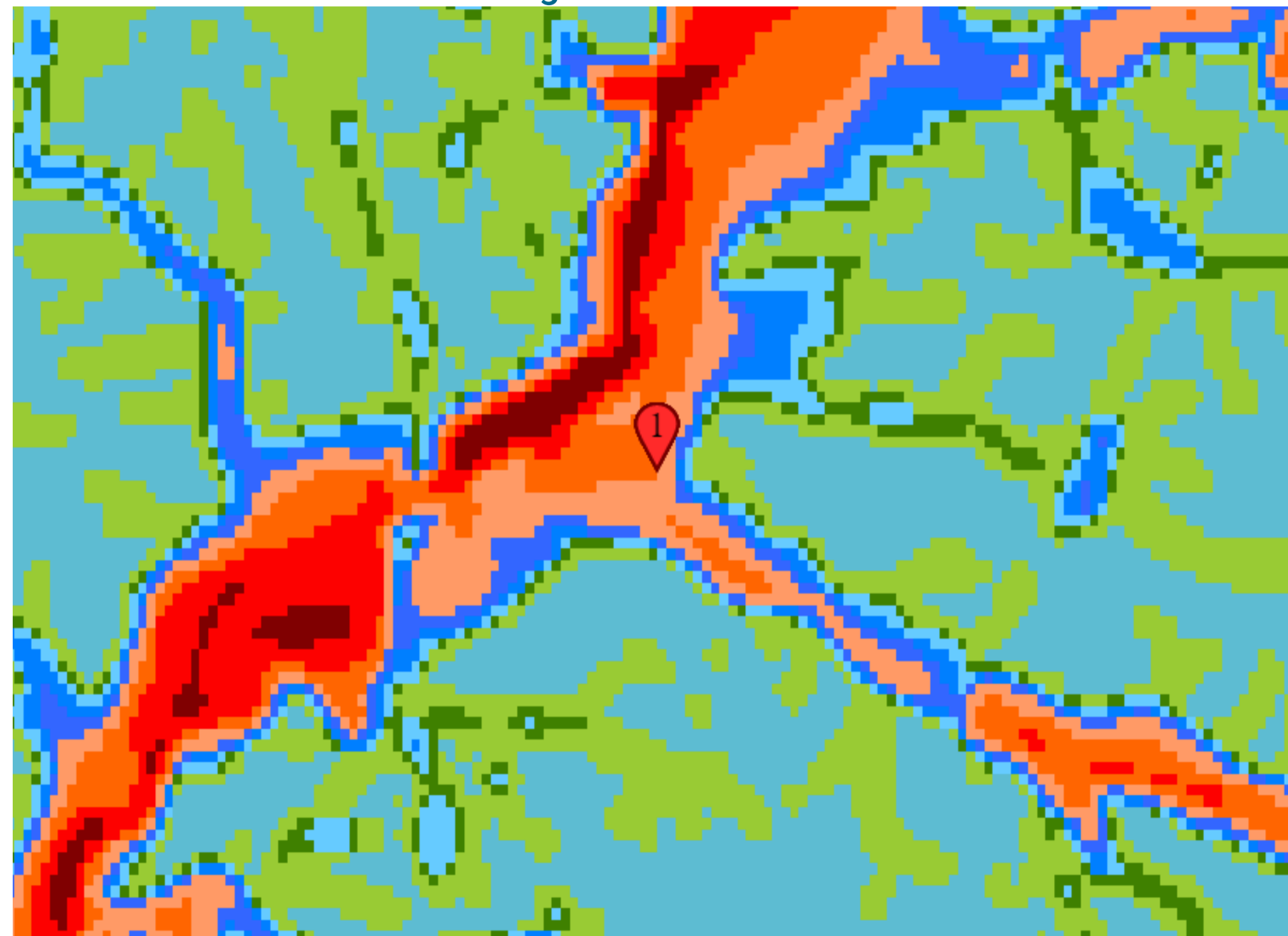


#	Asset Number	Asset Name	Address Line 1	Flood Score	TIVGeocoded Resolution
1	43	2015 W Oakland	2015 W Oakland	8.0	23.7MRooftop
2	35	2015 W Oakland	2015 W Oakland	8.0	9.7MRooftop
3	31	2015 W Oakland	2015 W Oakland	8.0	7.8MRooftop
4	16	2015 W Oakland	2015 W Oakland	8.0	6.7MRooftop
5	32	2015 W Oakland	2015 W Oakland	8.0	6.3MRooftop
6	44	2015 W Oakland	2015 W Oakland	8.0	5.8MRooftop
7	45	2015 W Oakland	2015 W Oakland	8.0	5.8MRooftop
8	25	2015 W Oakland	2015 W Oakland	8.0	5.7MRooftop
9	56	2015 W Oakland	2015 W Oakland	8.0	5.5MRooftop
10	61	2015 W Oakland	2015 W Oakland	8.0	4.9MRooftop

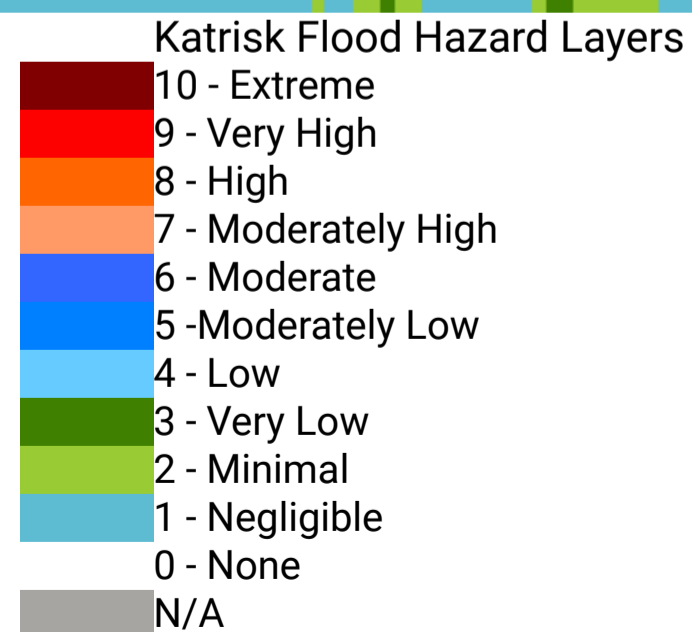
FLOOD EXPOSURE BY HIGH RISK KATRISK SCORES

WHAT ARE EXPOSED VALUES AND MOST EXPOSED LOCATIONS PER KATRISK FLOOD SCORE?

The top locations with high KatRisk Flood Scores of 7-10 are shown below.
Distribution of values is shown at right



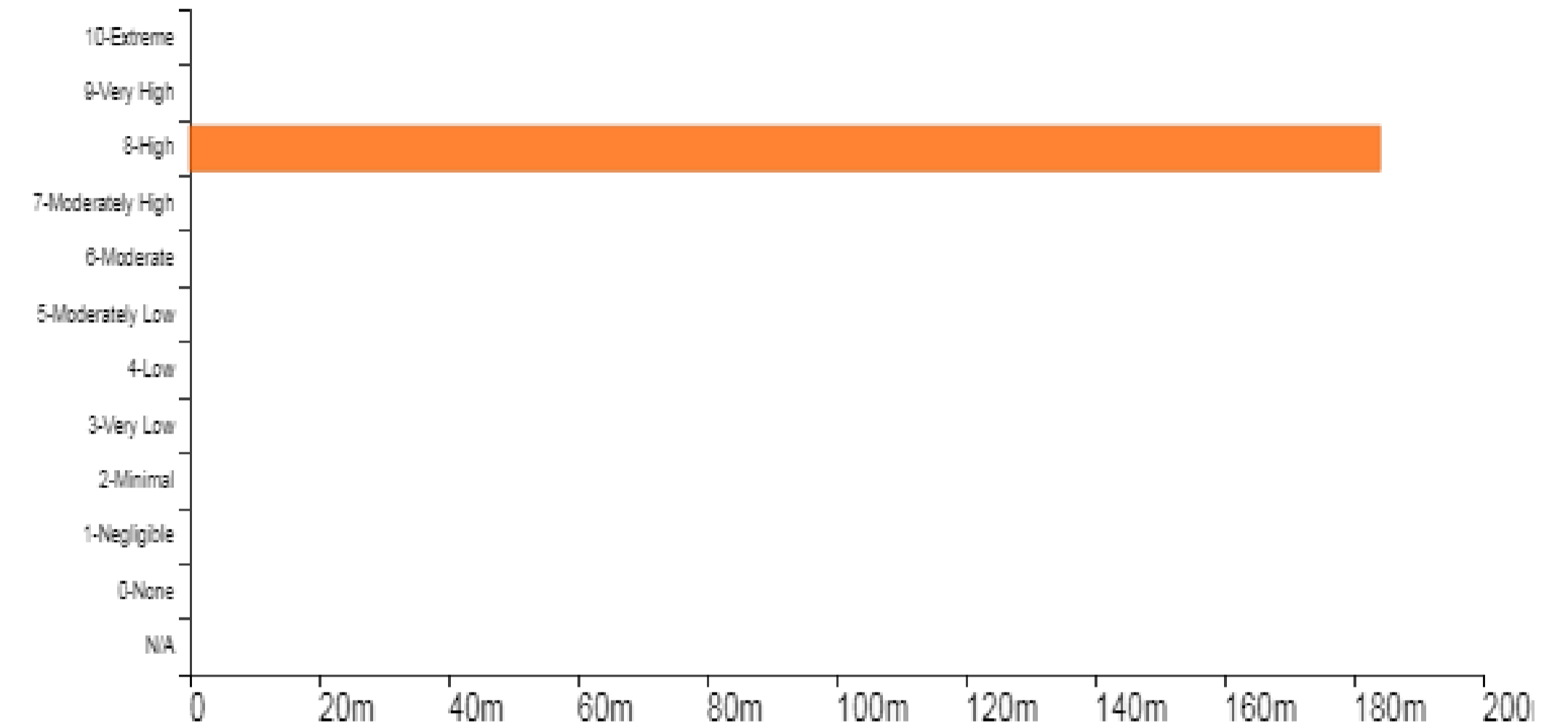
This exhibit surfaces the locations with the highest KatRisk Flood Scores of 7-10. These locations may not have shown up in the earlier exhibit if there were many low-value locations with a Flood Score of 10, for example.



#Assets
66 of 100

TIV
184.1M of 276.2M
TIV by Flood Score Range

Currency
USD

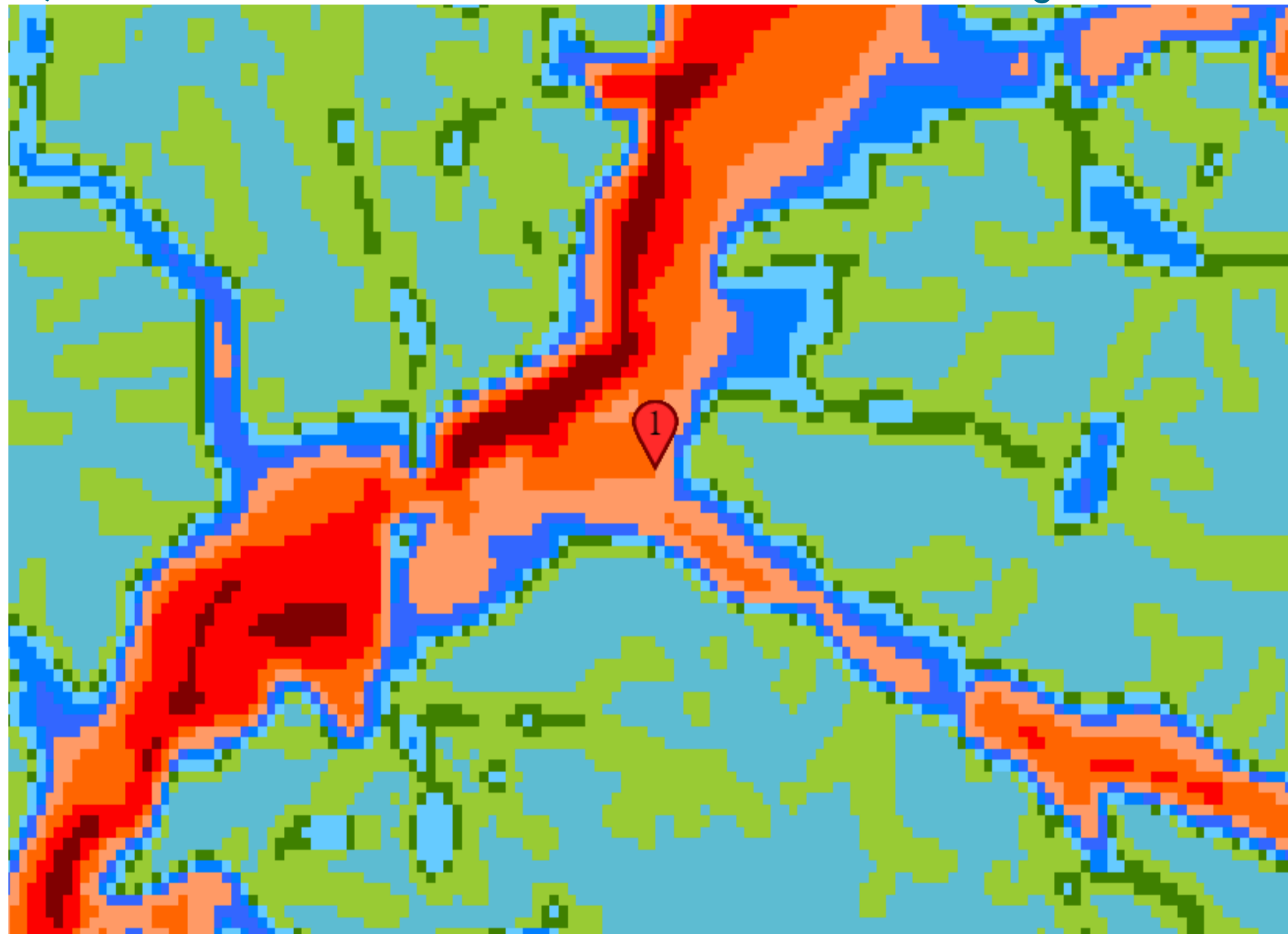


#	Asset Number	Asset Name	Address Line 1	TIV	Flood Score	Geocoded Resolution
1	43	2015 W Oakland	2015 W Oakland	23.7M	8.0	Rooftop
2	35	2015 W Oakland	2015 W Oakland	9.7M	8.0	Rooftop
3	31	2015 W Oakland	2015 W Oakland	7.8M	8.0	Rooftop
4	16	2015 W Oakland	2015 W Oakland	6.7M	8.0	Rooftop
5	32	2015 W Oakland	2015 W Oakland	6.3M	8.0	Rooftop
6	44	2015 W Oakland	2015 W Oakland	5.8M	8.0	Rooftop
7	45	2015 W Oakland	2015 W Oakland	5.8M	8.0	Rooftop
8	25	2015 W Oakland	2015 W Oakland	5.7M	8.0	Rooftop
9	56	2015 W Oakland	2015 W Oakland	5.5M	8.0	Rooftop
10	61	2015 W Oakland	2015 W Oakland	4.9M	8.0	Rooftop

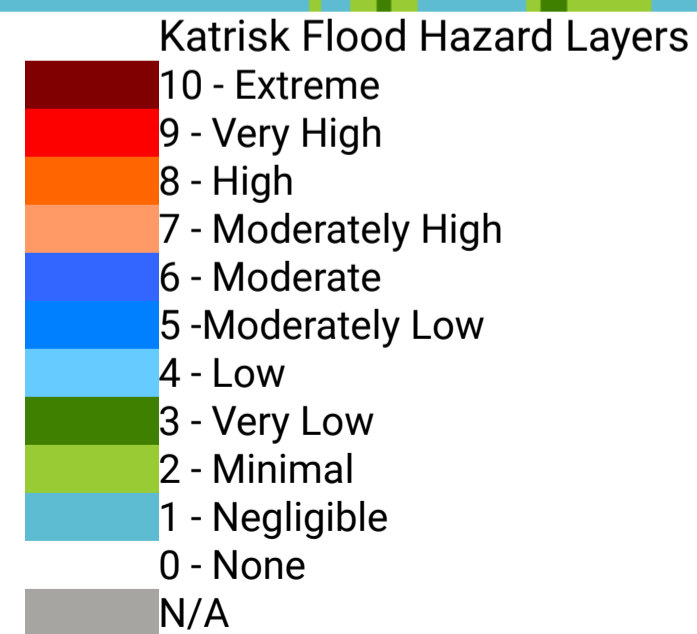
HIGH FLOOD EXPOSURE NOT IN FEMA HIGH RISK ZONES

WHAT ARE EXPOSED VALUES AND MOST EXPOSED LOCATIONS BY FLOOD RISK BUT NOT IN FEMA HIGH RISK ZONES?

The top locations with high KatRisk Flood Scores of 7-10, but not in FEMA A or V Zones, are shown below. The distribution of values is shown at right.



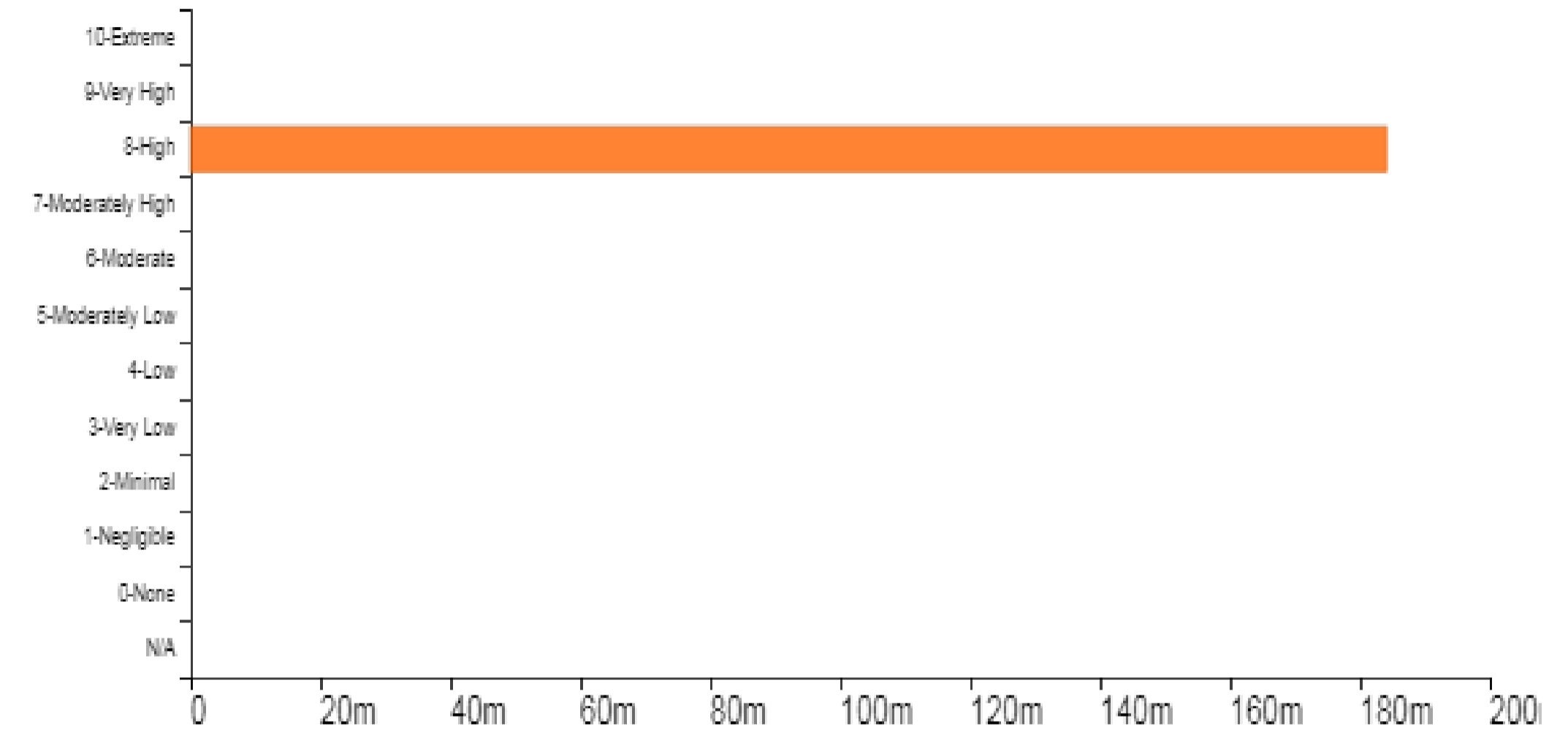
These locations are most likely to contribute to a coverage gap, because they are unlikely to be adequately mitigated against risk of flooding.



#Assets
66 of 100

TIV
184.1M of 276.2M
TIV by Flood Score Range

Currency
USD

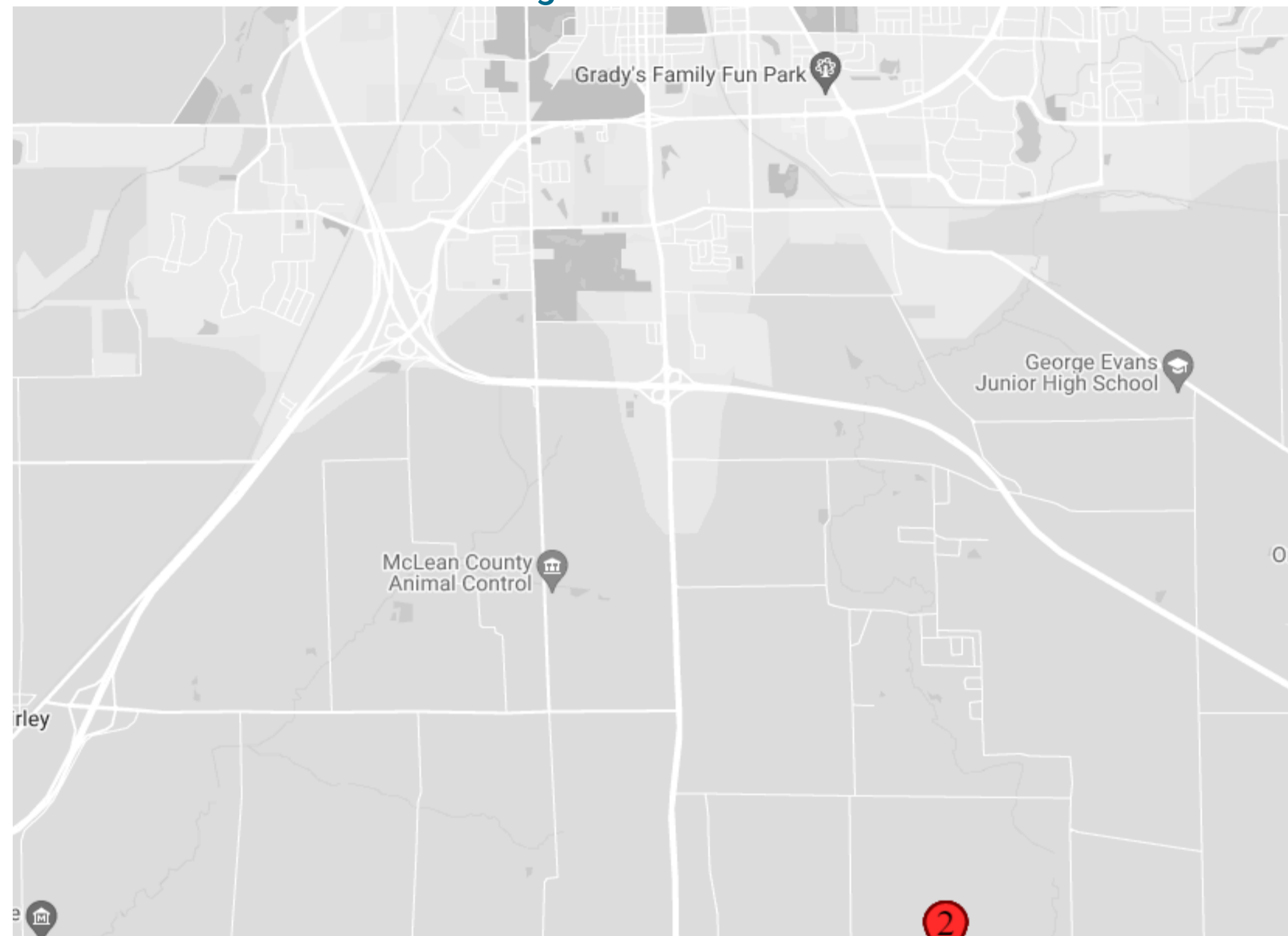


#	Asset Number	Asset Name	Address Line 1	TIV	Flood ScoreFlood Zone
1	43	2015 W Oakland	2015 W Oakland	23.7M	8.0X
2	35	2015 W Oakland	2015 W Oakland	9.7M	8.0X
3	31	2015 W Oakland	2015 W Oakland	7.8M	8.0X
4	16	2015 W Oakland	2015 W Oakland	6.7M	8.0X
5	32	2015 W Oakland	2015 W Oakland	6.3M	8.0X
6	44	2015 W Oakland	2015 W Oakland	5.8M	8.0X
7	45	2015 W Oakland	2015 W Oakland	5.8M	8.0X
8	25	2015 W Oakland	2015 W Oakland	5.7M	8.0X
9	56	2015 W Oakland	2015 W Oakland	5.5M	8.0X
10	61	2015 W Oakland	2015 W Oakland	4.9M	8.0X

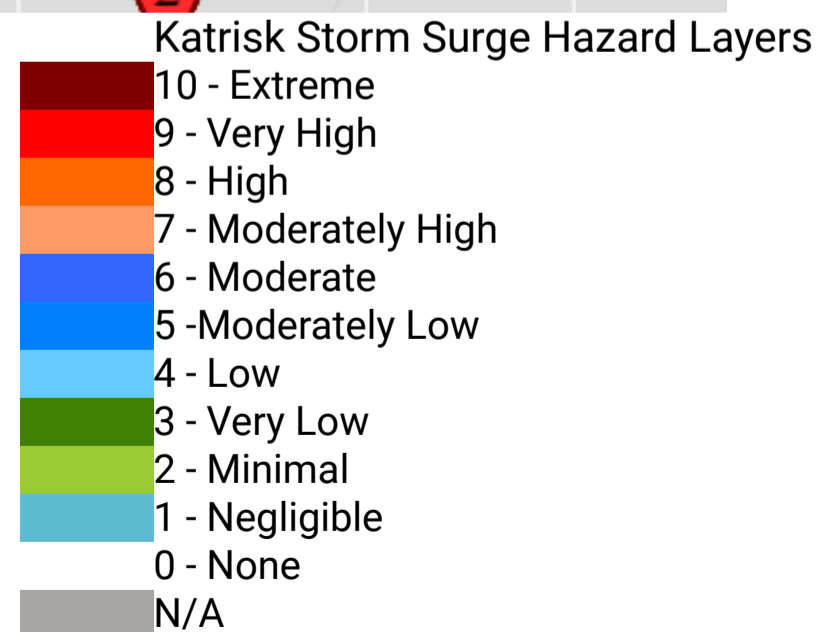
STORM SURGE EXPOSURE PROFILE

WHAT ARE EXPOSED VALUES AND LOCATIONS EXPOSED TO STORM SURGE RISK?

The top 10 locations by KatRisk Storm Surge Score are shown below. The distribution of values is shown at right.



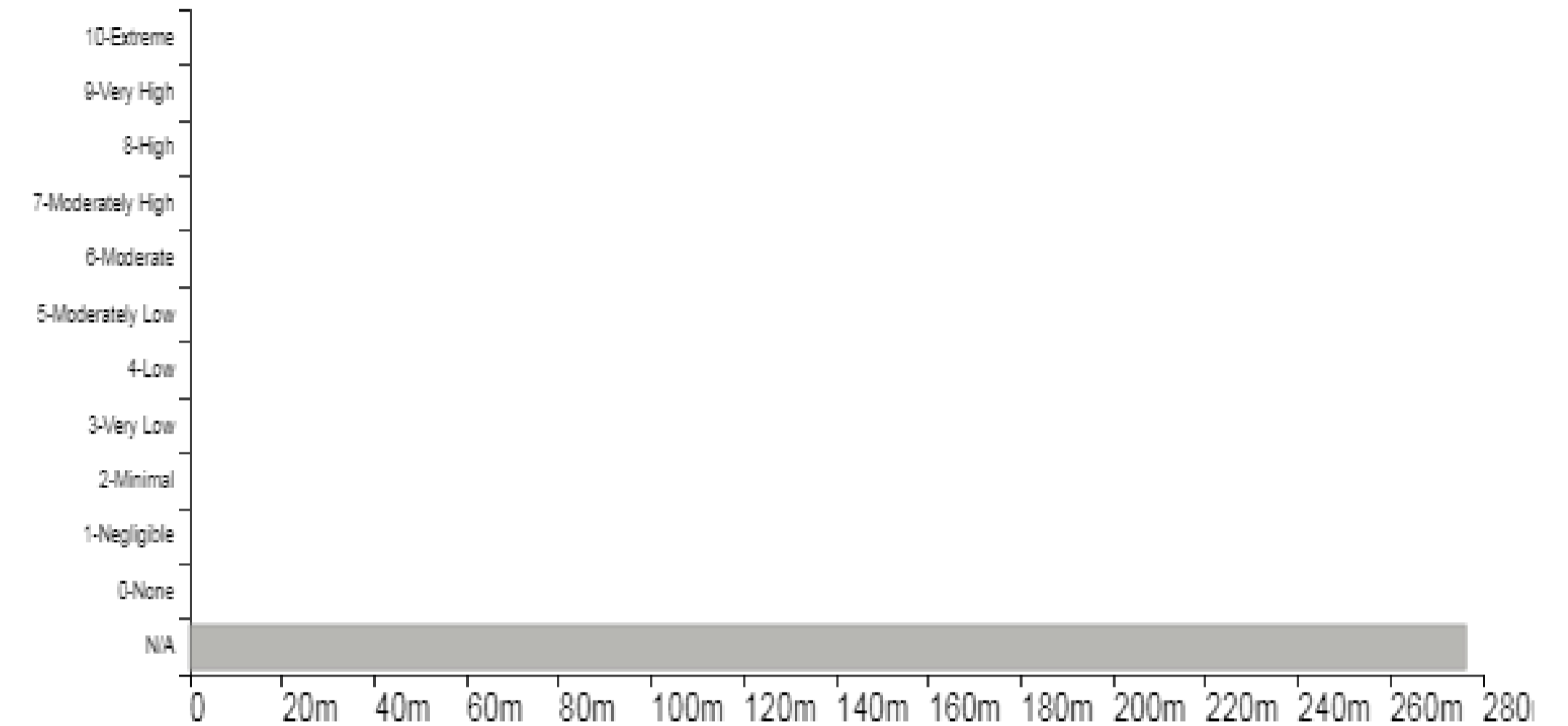
Note that the locations that show up here should ideally be geo-coded to rooftop level resolution, and should be visually inspected on the map to ensure they are correctly geo-located. A move of 10m could change the Storm Surge Score.



#Assets
100

TIV
276.2M
TIV by Surge Score Range

Currency
USD



#	Asset Number	Asset Name	Address Line 1	Surge Score	TIVGeocoded Resolution
1	43	2015 W Oakland	2015 W Oakland		23.7MRooftop
2	74	16041 E 700 North	16041 E 700 North		11.5MInterpolated Rooftop
3	69	16041 E 700 North	16041 E 700 North		10.8MInterpolated Rooftop
4	78	16041 E 700 North	16041 E 700 North		10.3MInterpolated Rooftop
5	35	2015 W Oakland	2015 W Oakland		9.7MRooftop
6	77	16041 E 700 North	16041 E 700 North		8.1MInterpolated Rooftop
7	31	2015 W Oakland	2015 W Oakland		7.8MRooftop
8	16	2015 W Oakland	2015 W Oakland		6.7MRooftop
9	32	2015 W Oakland	2015 W Oakland		6.3MRooftop
10	67	16041 E 700 North	16041 E 700 North		5.8MInterpolated Rooftop

STORM SURGE EXPOSURE WITH HIGH RISK KATRISK SCORES

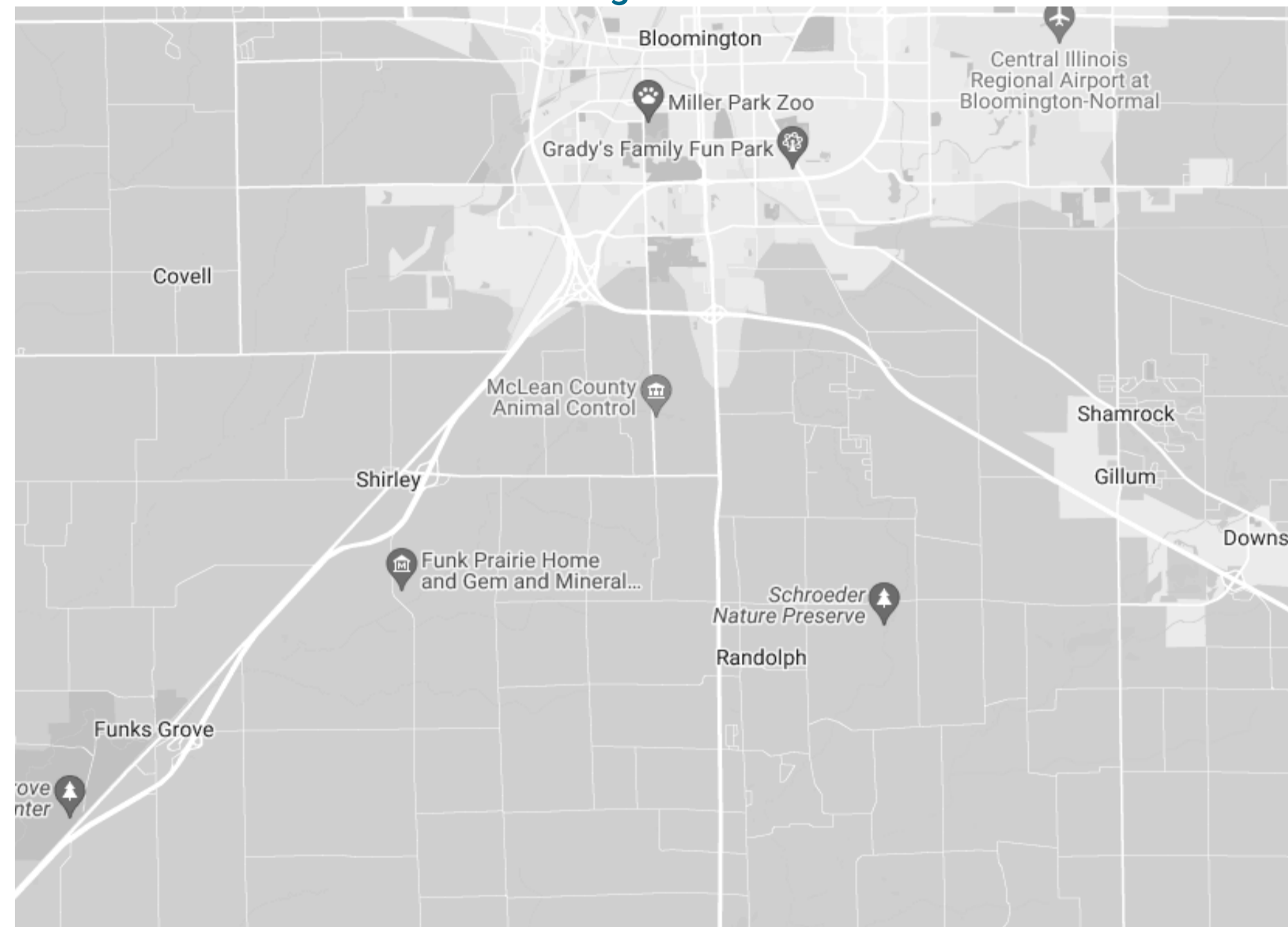
WHAT ARE EXPOSED VALUES AND MOST EXPOSED LOCATIONS PER KATRISK STORM SURGE SCORE?

The top locations with high KatRisk Storm Surge Scores of 7-10 are shown below. The distribution of values is shown at right.

#Assets
0 of 100

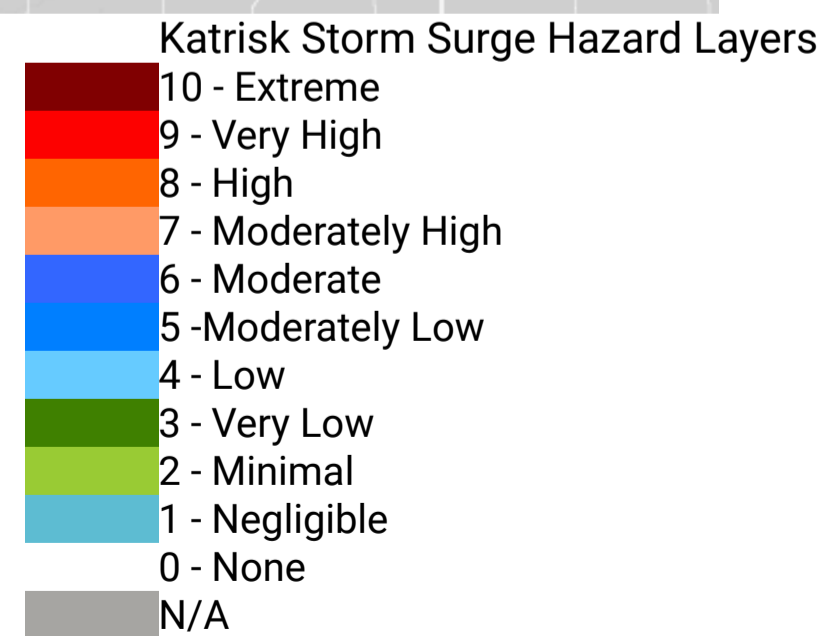
TIV
0.0 of 276.2M

Currency
USD



No data

This exhibit surfaces the locations with the highest KatRisk Storm Surge Scores of 7-10. These locations may not have shown up in the earlier exhibit if there were many low-value locations with a Storm Surge Score of 10, for example



No Assets

HIGH STORM SURGE EXPOSURE NOT IN FEMA HIGH RISK ZONES

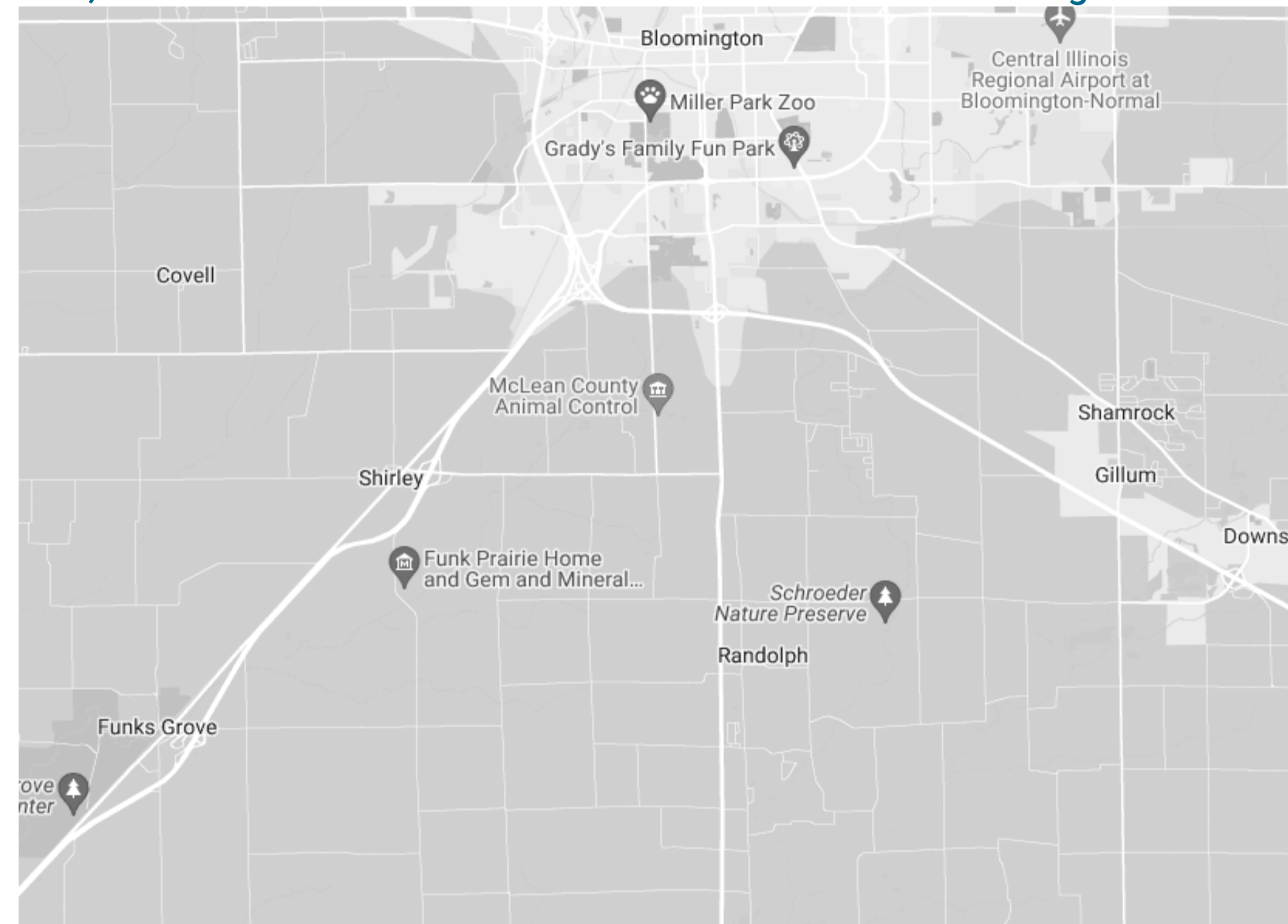
WHAT ARE EXPOSED VALUES AND MOST EXPOSED LOCATIONS BY SURGE RISK BUT NOT IN FEMA HIGH RISK ZONES?

The top locations with high KatRisk Storm Surge Scores 7-10, but not in FEMA A or V Zones, are shown below. The distribution of values is shown at right.

#Assets
0 of 100

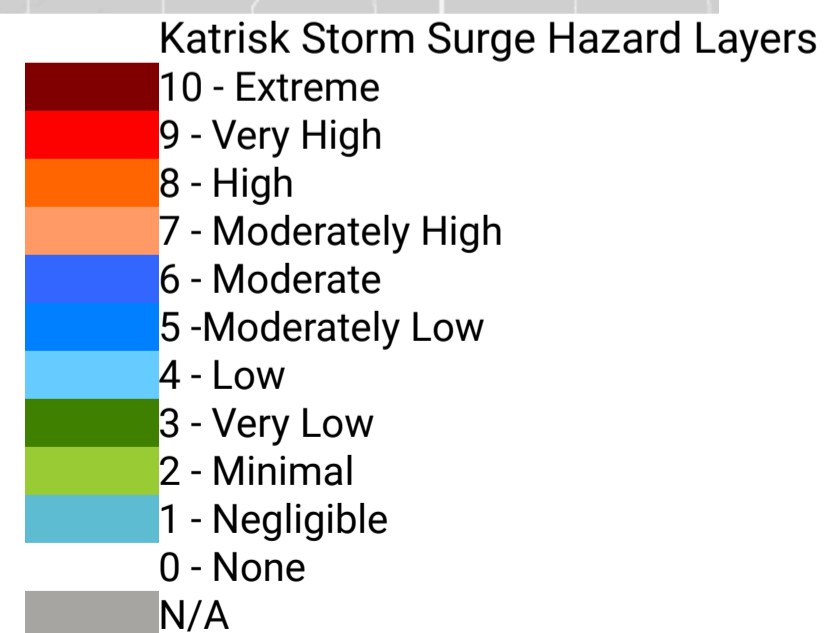
TIV
0.0 of 276.2M

Currency
USD



No data

These locations are most likely to contribute to a coverage gap, because they are unlikely to be adequately mitigated against risk of storm surge.



No Assets

Renewal Premium Comparison



Insurance | Risk Management | Consulting

BNWRD	Expiring 2021-2022	Renewal 2022-2023	Premium Change
Line of Business			
Property	\$ 217,324	\$ 252,147	16.0%
Inland Marine	\$ 6,618	\$ 6,804	2.8%
General Liability	\$ 15,596	\$ 18,542	18.9%
Public Entity Management Liability (D&O, EPLI)	\$ 6,128	\$ 7,420	21.1%
Automobile	\$ 18,641	\$ 21,135	13.4%
Crime	\$ 1,057	\$ 987	-6.6%
Umbrella	\$ 6,955	\$ 8,536	22.7%
Workers Compensation	\$ 42,321	\$ 50,125	18.4%
Equipment Breakdown	\$ 15,268	\$ 17,000	11.3%
Cyber	\$ 7,420	\$ 6,250	-15.8%
Pollution	\$ 3,535	\$ 3,535	0.0%
Terrorism	Included	Included	
Total	\$ 340,863	\$ 392,481	15.1%

Carrier Code

Travelers

Beazley

Navigators

Items Needed:

Signed Client Authorization to Bind
Signed Statement of Property Values

Optional Quotes:

Excess Umbrella: \$75k minimum premium for 10x5 (Allied Public Risk)
Property with \$10M Earthquake: \$271,173 (+\$19,026 premium for additional \$5M)

Notes:

Property Values Increased by 6% Inflation Factor
Crime Deductible Increased from \$500 to \$1,000
Ordinance or Law (Code Upgrades) increased to \$1M
2021 Building Rate (.084)
2022 Building Rate (.092)

Spring/Summer Insurance Market Report

MAY 2022



Gallagher

Insurance | Risk Management | Consulting

Spring/Summer Insurance Market Report

The Big Picture

Where we were: What we've seen through Q1 2022

- Companies faced a challenging insurance market overall from 2019 through Q1 2022. Our clients faced years of substantial rate increases, capacity issues and difficulties obtaining coverage.
- For a number of years, many carriers failed to get rate increases that could keep pace with what they paid out in losses. As loss costs trended upward, pricing surged.
- At the same time, carriers faced a number of escalating challenges that drove up claim costs, including social inflation—the trend of rising insurance costs as a result of increased litigation, plaintiff-friendly judgments and “nuclear” jury awards—as well as increased storm activity and pandemic-related losses. Ultimately, pandemic losses did not live up to carriers’ worst-case scenarios.
- Carriers’ ability to offset weak underwriting results through investment income remained a challenge through 2021 due to low interest rates.
- By Q1 2022, rate increases started to moderate in certain classes. Insurance companies have gotten their books of business in a better position than in the several prior years.

Where we are: What we're seeing now

- After three years of substantial rate increases, the market is moving towards rate adequacy. Rate increases have decelerated slightly. But, not every service line is equal. Cyber, for example, has kept up sizeable year-over-year rate increases, with median increases of 37.0%, while Workers’ Compensation rates showed relatively flat pricing, with median increases at a mere 0.6%.
- There is much more certainty and stability among underwriters than a year ago, when carriers were still large-scale re-underwriting many segments of their business—cutting capacity, making sure terms and conditions were sufficient, and making sure rates were adequate across a large swath of their business.
- Carriers are staying disciplined and continuing to push rate increases—especially toward businesses with challenging risk profiles. Rate increases are not as industry-wide, but rather more likely to be done on an account-by-account basis now, with an average price increase (rate plus exposure) of 8% across all lines, according to Gallagher U.S. client data.
- With improving rate adequacy comes increased carrier competition. There are a number of new entrants to the market and increasing competition as underwriters look to write new business, especially for accounts that are in desirable classes and are priced well.
- The complicating factors of social inflation, storm losses and general inflation continue to be on carriers’ minds, and continue to impact the overall market.

In This Report

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Where we're going: Trends we are watching

- Inflation, if it continues unabated, will push up loss costs and ultimately will have to be passed through premium increases.
- In response to inflationary pressures, the Federal Reserve increased short term interest rates, which support stronger investment returns for carriers. Questions linger about how high interest rates will go.
- As storm losses continue to mount, pricing models are trying to catch up.
- Social inflation shows no signs of slowing. A backlog of cases, slowed by pandemic shutdowns and short-staffing, will be telling about the full impact as these cases begin to move through the court system.
- Third-party litigation funding remains a concern for insurance carriers, as it encourages prolonged litigation and larger monetary awards. It is also a growing contributor to social inflation because of its tendency to drive higher claims costs. Litigation funded by third-party investors is most prevalent in Commercial Auto, General Liability, Directors and Officers (D&O), and Umbrella/Excess insurance lines.
- How will carriers' continued investments in data and technology enable them to anticipate and react to changing risk trends in real time? If carriers are able to understand changing risk trends promptly, for example, how Workers' Compensation and Auto risks are affected as more employees work from home, they can be more responsive in adjusting premium.
- We think the uptick in new competition could moderate rate increases, likely further into 2022.

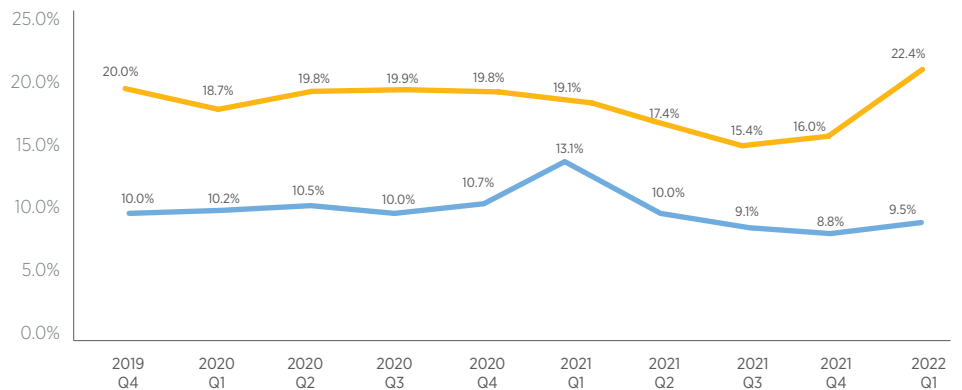
Read on for our analysis of the market conditions for each major line of coverage, and guidance that will help ensure a successful renewal outcome.

Property

Where we were: What we've seen through Q1 2022

- Following three straight years of rate increases, with double-digit rate increases for approximately half of our renewals, average Property rate increases are dipping into the single-digits.
- Last year was another record-breaking year for weather-driven losses, with the Texas storm Uri creating substantial losses that were not well-modeled or -predicted in the industry. These less-modeled and unmodeled risks continued to plague the Property marketplace.
- Hurricane Ida hit in August 2021, causing an estimated \$95 billion in insured losses in Louisiana and other affected areas.¹
- Carriers pushed for increased valuations, but fell short of outright requiring them. They did, however, require clients to address existing third-party engineering recommendations.

Property Rate Trends Q4 2019 – Q1 2022



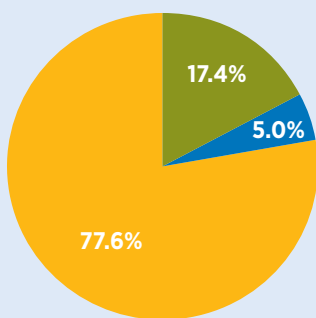
Source: Gallagher U.S. Clients

■ Median Rate Change

■ 75th Percentile Rate Change

Q1 2022 Property Rate Changes

Gallagher — U.S. Clients



● Decrease ● Flat ● Increase

9.5%

median rate change in
Q1 2022*

Where we are: What we're seeing now

- Market conditions are more favorable than a year ago, with most carriers still expecting moderate rate increases. However, the market is bifurcated between those in desirable industries that are seeing flat to low single-digit increases, and those in challenging asset classes and/or with significant loss history that are seeing double-digits or even higher rate growth.
- For those in challenging asset classes, Property remains a hard market. Wildfire in California and Florida condo business are two examples.
- Valuation has always been important in the Property market, but occasionally in prior years, carriers were willing to accept values that rolled over year-to-year. Now, carriers scrutinize their clients' statements of value, demanding that values be raised. For clients that resist increasing valuations, carriers either won't consider that client for coverage, they'll charge more, or restrict coverage to what the client is reporting on the statement of values.

¹Stevens, Pippa. CNBC, "Hurricane Ida's damage tally could top \$95 billion, making it 7th costliest hurricane since 2000." Sept. 8, 2021.

- Inflation indexes are up substantially in 2022, largely due to labor and material shortages and supply chain issues. Consequently, underwriters' claims payment losses are often greater than the statement of values.
- By now, insurers have had five years of rate increases to get to profitability in most placements. There's more competition now that premiums are at a certain level, with more carriers looking to grow by writing new business. There is a lot of competition for best-in-class clients, which has helped slow rate increases.
- The median increase in Q1 2022 for Property policies was 9.5% in Q1 2022, with 77.6% taking an increase.

Where we're going: Trends we are watching

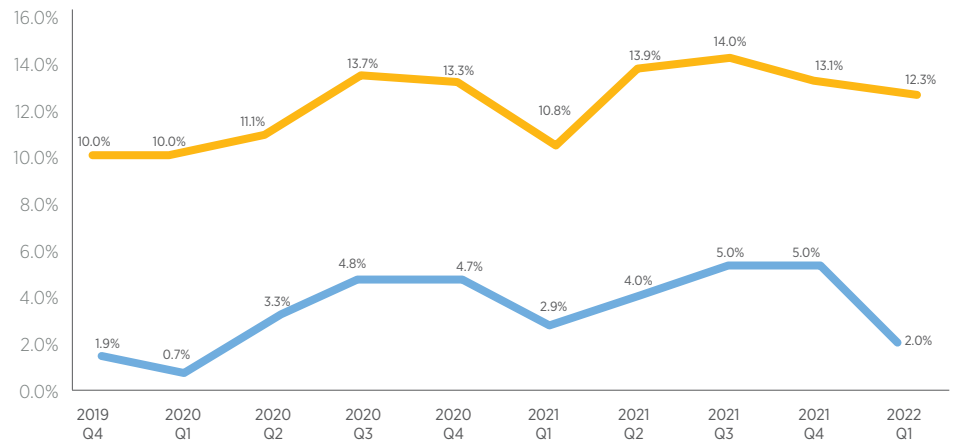
- Non-modeled weather events are becoming more severe and frequent which is adding uncertainty in pricing in the property market. While the first quarter of 2022 has been relatively benign, underwriters concerned about non-modeled losses may be looking to change terms and conditions, either through higher deductibles or limiting coverage.
- Companies with challenging occupancies, loss activity and/or CAT-exposed can expect to see rate increases in the higher quartile.

General Liability

Where we were: What we've seen through Q1 2022

- As a result of the pandemic, claims in General Liability were down in 2020.
- Because most primary General Liability's policy limits have not changed in many years, carriers remained somewhat insulated from trends such as social inflation, which impacted other lines of insurance, like D&O, Auto and Umbrella/Excess.

General Liability Rate Trends Q4 2019 - Q1 2022



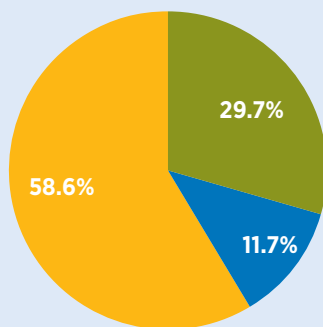
Source: Gallagher U.S. Clients

■ Median Rate Change

■ 75th Percentile Rate Change

Q1 2022 General Liability Rate Changes

Gallagher – U.S. Clients



● Decrease ● Flat ● Increase

2.0%

median Rate Change In Q1 2022*

Where we are: What we're seeing now

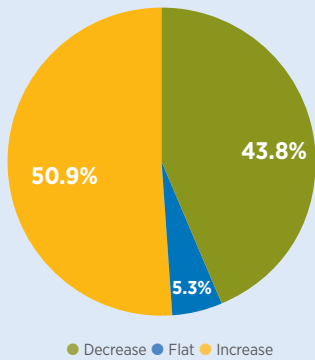
- Even though primary General Liability carriers are somewhat protected, they remain concerned with the impact of third-party litigation funding (TPLF) and the impact of social inflation on the General Liability line.
- Carriers continue to push for communicable disease exclusions on General Liability policies.
- The median rate change for General Liability policies in Q1 2022 was 2.0%, with 58.6% of companies taking increases.

Where we're going: Trends we are watching

- We expect rate increases to continue into 2022, albeit smaller increases than many of the other major lines of insurance, such as Property, Umbrella/Excess and Auto.
- We expect to see third-party litigation continue to drive up claim costs and prices in the coming years. With the rise in inflation, General Liability claim costs will likely increase as well.
- How high carriers can push the primary General Liability limits remains to be seen. Will limits go from \$1 million/\$2 million to \$2 million/\$4 million, or go even higher?

Workers' Compensation

Q1 2022 WC Rate Changes Gallagher — U.S. Clients



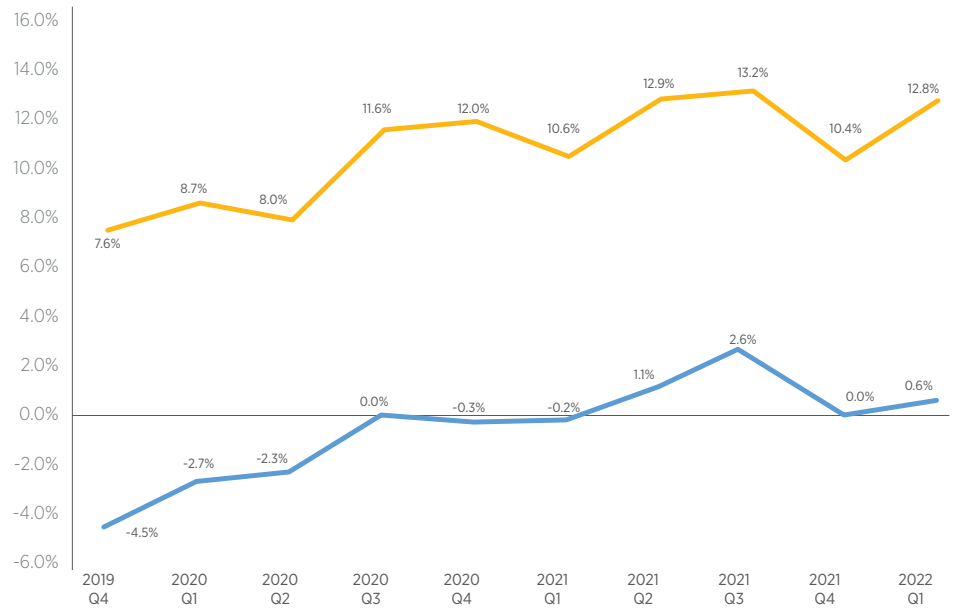
0.6%

median rate change in
Q1 2022*

Where we were: What we've seen through Q1 2022

- Rates have been low for Workers' Compensation coverage for several years in a row. Favorable loss development in prior years continues to positively impact most carriers.
- There's been a lot of competition and rate reductions over the past two years.

Workers' Compensation Rate Trends Q4 2019 – Q1 2022



Source: Gallagher U.S. Clients

■ Median Rate Change

■ 75th Percentile Rate Change

Where we are: What we're seeing now

- Workers' Compensation continues to be a profitable and stable line of insurance for most carriers. It is often purchased in conjunction with less profitable lines, such as Commercial Auto and General Liability.
- There are signs that the Worker's Compensation market may be firming as employees return to the workplaces. Claim frequency will likely rise as less experienced employees return to the workplace.
- The median increase in Q1 2022 for Workers' Compensation policies was 0.6%, with 50.9% taking an increase. More than four in 10 (43.8%) of respondents saw Workers' Compensation rates drop in Q1 2022.

Where we're going: Trends we are watching

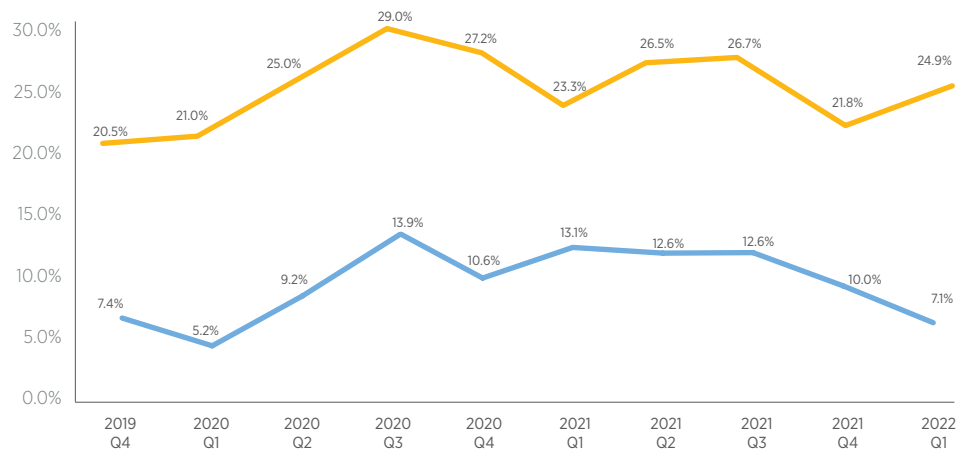
- For the first time, we're starting to see broader rate increases in Workers' Compensation. They're not nearly as significant as the ones that we've seen in the other lines, but noteworthy given how rates trended last year.
- Workers' Compensation, for instance, has been a very profitable line of coverage. And we have been able to achieve rate decreases for most of the past two-plus years. It's still probably the most competitive line of coverage that we see in the casualty space. But we are starting to see the rates tick up, a reflection of inflation.

Umbrella/Excess

Where we were: What we've seen through Q1 2022

- Umbrella/Excess has been a challenging market for the last few years. Accounts in 2020 and in 2021 often experienced significant rate gains—a “right-sizing” effect.
- COVID-19 paused some of the impact of social inflation in 2020, but social inflation remains a factor in rate changes.
- Carriers continued to cite an increase in plaintiff activity, with the rate of attorney involvement increasing.
- Litigation funding remained a concern for insurers.
- Large judgments and settlements targeted the deep pockets of big corporations, leading to hefty rate increases for Fortune 500 companies.

Umbrella Rate Trends Q4 2019 – Q1 2022

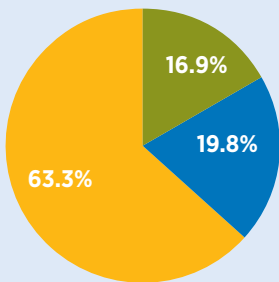


Source: Gallagher U.S. Clients

■ Median Rate Change

■ 75th Percentile Rate Change

Q1 2022 Umbrella Rate Changes Gallagher – U.S. Clients



● Decrease ● Flat ● Increase

7.1%
median rate change
in Q1 2022*

Where we are: What we're seeing now

- The Umbrella and Excess Casualty marketplace continues to remain challenging. Rate increases and capacity contraction continue, given rising claim costs and poor historical results in this segment for much of the last decade.
- We continue to see rate increases, but increases are on a smaller scale than in the past.
- The first layer—or “burn layer” of Excess is not particularly competitive, however, in the next few layers, we’re starting to see some more competition. New markets are looking to come in.
- Most placements with minimal adverse loss history, including renewals, continue to require full marketing efforts and restructuring with varying attachment points.

Where we're going: Trends we are watching

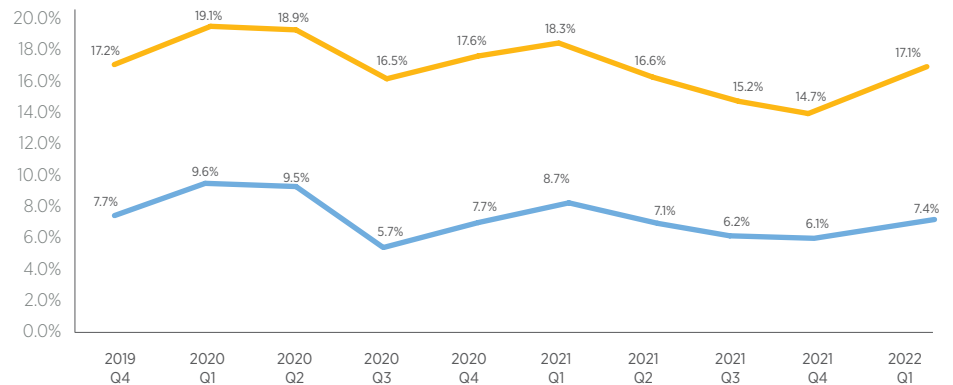
- We expect rate increases to moderate in 2022, yet with more moderate growth.
- Social inflation and nuclear verdicts continue to be areas of concern and uncertainty for Umbrella and Excess lines.
- Will new market entrants bring down rate increases further?

Commercial Auto

Where we were: What we've seen through Q1 2022

- Claims in Auto associated with pandemic shutdowns were down in 2020, with the biggest reduction in Commercial Auto. Claims returned to more or less normal level by Q1 2022.
- A significant uptick in home delivery during the pandemic meant more drivers were on the roads. This helped to offset the reduction in driving for those employees who no longer commuted to their workplace/office.

Commercial Auto Rate Trends Q4 2019 – Q1 2022



Source: Gallagher U.S. Clients

Median Rate Change

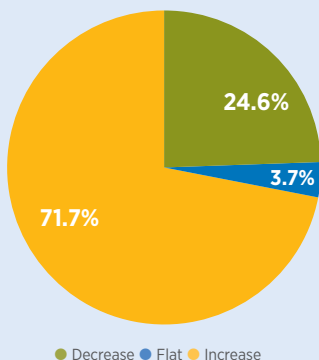
75th Percentile Rate Change

Where we are: What we're seeing now

- Total miles driven is almost back to pre-pandemic levels.² In particular, large jury awards in Commercial Auto insurance (in excess of \$10 million) are becoming increasingly prevalent.³ Companies with large fleets or poor loss history may experience more significant rate increases, and carriers insuring large fleets are looking to attach excess layers above \$1 million.
- Social inflation is leading to larger and catastrophic claims, particularly affecting companies with large fleets.
- The median rate change for Auto policies in Q1 2022 was 7.4%, with 71.7% taking increases.

Q1 2022 Commercial Auto Rate Changes

Gallagher — U.S. Clients



7.4%

median rate change in Q1 2022*

Where we're going: Trends we are watching

- With the rise in inflation, Auto claim costs are more expensive than ever.
- New cars were also less available as automakers faced semiconductor chip shortages and supply chain disruptions, including bottlenecks at ports, that made it hard to meet demand. Prices for both new and used cars have skyrocketed. This ultimately drives up claim costs and Auto insurance rates.
- Labor shortages meant that repairs took longer than before, and were worsened by shortages of replacement parts.
- We expect to see third-party litigation continue to drive up claim costs and prices in the coming years.
- We expect rate increases to continue into 2022, yet be more moderate in the coming months.

²Federal Reserve Bank of St. Louis, "Moving 12-Month Total Vehicle Miles Traveled", March 2022

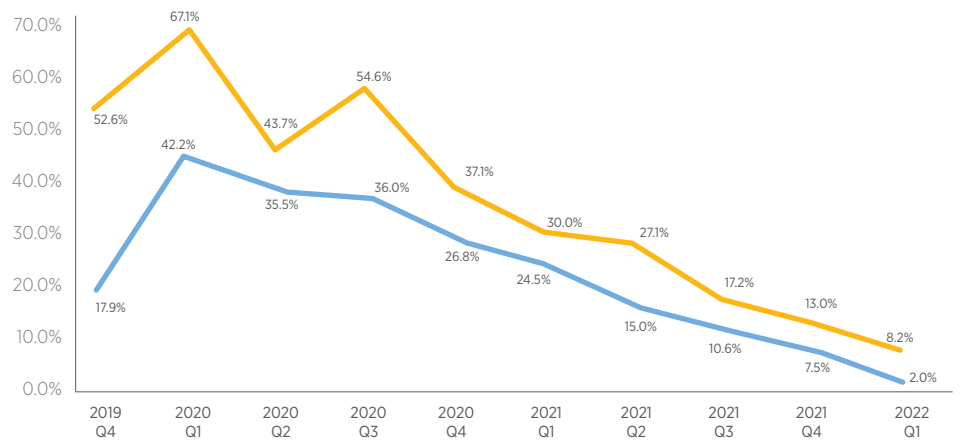
³Travelers Insurance, "What's Driving Huge Jury Awards? Navigating Legal Liability in the Era of the Nuclear Verdict"

Directors & Officers

Where we were: What we've seen through Q1 2022

- After the COVID-19 shut down, economic factors and adverse D&O loss trends hardened the market by Q2 of 2020. Every aspect of D&O placements was impacted: premium, retention, deployed capacity, excess attachment decisions, and even terms and conditions.
- We saw two years of tightly controlled increases by D&O carriers. After large rate increases through 2021, carriers have repaired their books and are looking to write new business. Price increases decelerated throughout 2021.
- We began to see carrier loss results improve through 2021, and new capacity started impacting renewals by the beginning of 2022.
- Emerging plaintiff attorneys continue to bring cases targeting smaller companies, including smaller market cap drops.

D&O Public Company Rate Trends Q4 2019 – Q1 2022

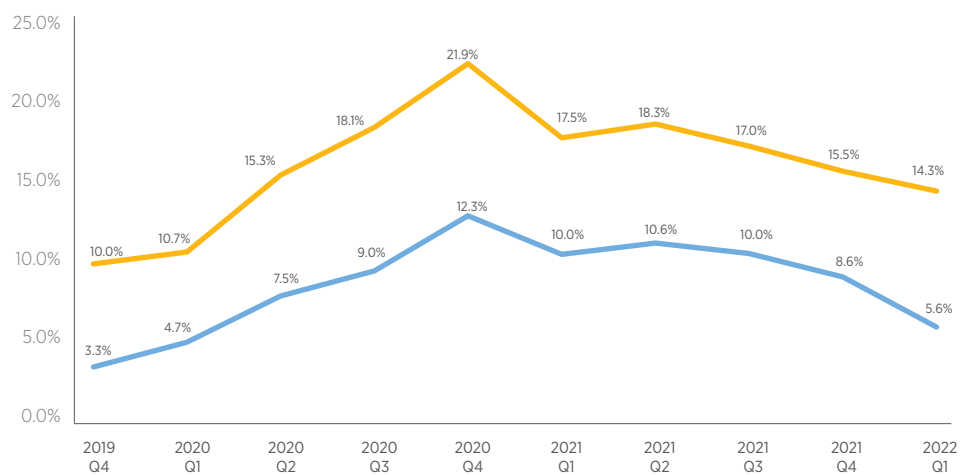


Source: Gallagher U.S. Clients

■ Median Rate Change

■ 75th Percentile Rate Change

D&O Private Company Rate Trends Q4 2019 – Q1 2022



Source: Gallagher U.S. Clients

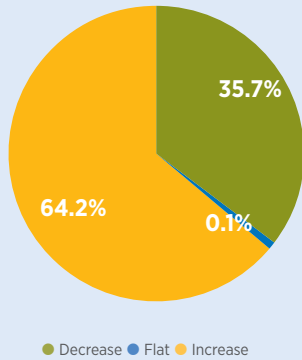
■ Median Rate Change

■ 75th Percentile Rate Change

Where we are: What we're seeing now

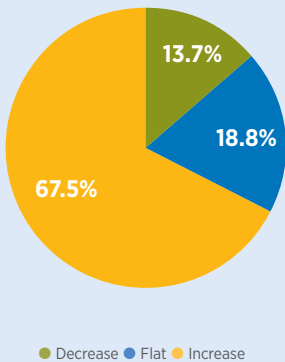
Public Company D&O

Q1 2022 D&O Public Company Rate Changes
Gallagher — U.S. Clients



2.0%
median rate increase
in Q1 2022*

Q1 2022 D&O Private Company Rate Changes
Gallagher — U.S. Clients



5.6%
median rate change
in Q1 2022*

- There's more competition in the marketplace due to new market entrants, as well as established D&O carriers quoting lower down on programs across the board. For example, a large account could see eight primary quotes now versus two to three a year ago.
- 2022 began with small price increases on average, with continued pressure to maintain larger retentions mostly achieved in 2021. While there is still reluctance to deploy large chunks of capacity on challenged accounts, this may shift soon. Flat renewals have emerged, especially late in Q1 and reductions have become prevalent for good risks in a few sectors. This favorable trend is likely to continue throughout 2022.
- Some pressure on capacity remains in the pharmaceutical and biotech space; however, clients in these sectors are seeing premium reductions in many cases. Meanwhile, increases continue for those companies adversely impacted by the pandemic or under financial stress in general.
- The toughest market sectors to attract capacity continue to be IPOs, especially DeSPACs, and reverse-flow companies, the latter being defined as corporations trading on major U.S. exchanges but with headquarters outside the U.S. But even these sectors are improving.
- Median rate increases for D&O public companies have come down quite a bit in the last year. The median rate increase in Q1 2022 was 2.0%, a notable decline from 10% in Q1 2021, and 42% in Q1 2020. We anticipate the median rate change may be negative in the coming months.

Private Company D&O

- For private company D&O, underwriters are requiring additional information aside from the typical application and financial statements, such as questionnaires regarding continuity plans, return to the workplace, vaccine mandates, etc. In addition, underwriters in the private D&O space are reducing limits, increasing retentions, eliminating [the previously no charge] additional D&O Side A limits, and for some accounts, introducing exclusions such as antitrust, insolvency and infectious disease.
- Given the broad entity coverage provided under private D&O policy forms, insurers often find themselves paying more and costlier claims than anticipated, particularly when compared to average premiums. The more expensive claims are often related to bankruptcies, antitrust, and mergers and acquisitions, including some DeSPACs.
- According to Gallagher's proprietary data, the median increase for private company D&O was 5.6%, with 67.5% taking an increase. Carriers we interviewed suggested their private company D&O books continue to need rate, projecting typical increases of 5% to 10% for most 2022 renewals.

Where we're going: Trends we are watching

- We expect to see pricing levels eventually flatten out with some price decreases before 2022 ends. The better risks will be characterized by strong capital adequacy, earnings power and management excellence.
- Environmental, social and governance (ESG) focus has amplified over the last five years, and going forward, underwriters may put heavier emphasis on ESG issues, especially diversity/equality/inclusion components and how they may be reflected by the board and key executives, plus climate change financial disclosure, among other things.
- We also expect to see close scrutiny of cybersecurity measures and cyber insurance as relates to D&O concerns, impact from the pandemic and related threats to business health or any contributor to economic uncertainty.
- We expect many fewer increases in retentions in 2022, absent of large growth in exposures, which may also continue to drive some rate increases, as exposures are now reviewed more closely.

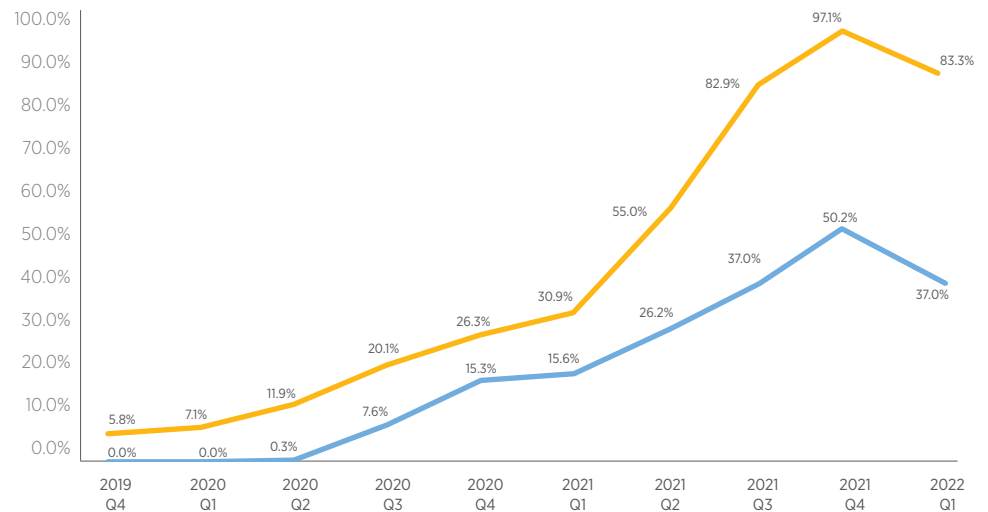
Cyber

Where we were: What we've seen through Q1 2022

- Last year was a stark reminder that hackers are pivoting—and succeeding—in deploying new attack strategies. There is clear evidence that they now favor targets in the supply chain that could provide a gateway to multiples of additional victims, providing efficiencies to their methods. There were a wide variety of victims that ranged from global software providers, email platforms, the largest U.S. meat supplier and a fuel supplier that provides nearly half the fuel to the east coast of the U.S.
- Ransomware attacks continued to ravage the bottom lines of both their victims and insurance carriers. In fact, during the first six months of 2021, there was \$590 million paid in ransom payments, as opposed to \$416 million paid in all of 2020.⁴
- The impact of heightened cyber risk due to COVID-19 was also apparent in 2021. Organizations were forced to continue to operate in remote working environments, while cyber threat actors continued to exploit inherent data security weaknesses. Consistent with this finding, the 2021 Ponemon-IBM's Cost of a Data Breach Report, showed a correlation between increased remote workforce and the increased cost of a data breach.⁵
- The hard market trend that began in 2020 continued to intensify throughout 2021 and into 2022 as the risks in specific industry sectors became subject to greater underwriting scrutiny and increased premiums.

The top 25% of companies saw
Cyber rate increases of 83.3%
in Q1 2022.

Cyber Rate Trends Q4 2019 – Q1 2022



Source: Gallagher U.S. Clients

■ Median Rate Change

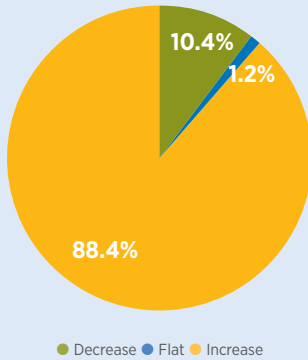
■ 75th Percentile Rate Change

⁴ Cohn, Carolyn. "Insurers Cut Their Appetite for Cyber Cover as Ransomware Losses Mount." Insurance Journal, November 19, 2021.

⁵ IBM Security and Ponemon Institute, "Cost of a Data Breach Report 2021."

Q1 2022 Cyber Rate Changes

Gallagher — U.S. Clients



37.0%

median rate change in
Q1 2022*

Where we are: What we're seeing now

- The Cyber marketplace is very concerned about systemic cyber risk, cyber underwriting practices and where hackers may hit next, as ever-escalating ransomware and cybersecurity risks continue to plague the Cyber insurance market.
- Growing geopolitical tensions have increased cyber risk for organizations worldwide as the conflict between Russia and Ukraine has raised concerns for the potential for increased nation state cyber attacks. These could impact global organizations well beyond the geographic boundaries of Eastern Europe, whether they are the intended target or not.
- Carriers have responded to the hard market with higher rates, higher retentions and larger coinsurance requirements. Many carriers impose sublimits and coinsurance provisions specific to ransomware claims.
- Cyber premiums increased in Q1 2022 across the board, regardless of the industry sector or size of the organization.
- In addition to rate growth, carriers seek to limit exposure through limiting capacity. The policy limits are approximately half of those limits offered during the 2021 renewal cycle, both at the primary and excess layer levels.
- All carriers now require attestation of at least some preventive controls, which likely include multifactor authentication, remote desktop protocol, data backup practices, segregation of networks, encryption, patch management, privileged account management, employee training and a host of others. A number of carriers require ransomware supplemental applications to assess how well insureds manage threats.
- Organizations that lack specific data security controls are seeing rate jumps as high as 100% to 300%.
- The median increase in Q1 2022 for Cyber companies is 37.0%, with 88.4% taking an increase.

Where we're going: Trends we are watching

- Debates between brokers and underwriters continue to rage on exactly what Cyber insurance policies should cover and to what extent an insured's cyber risk management maturity requirements need to adapt to the 2022 threat landscape.
- Capacity questions have not been settled, and exactly how much will be available in the U.S. and global Cyber markets in 2022 remains an open question.
- We expect a continued disciplined underwriting approach that remains laser-focused on data security controls, with rates continuing their upward trend.
- Cyber insurance buyers can also expect more restrictive coverage terms, mandatory sublimits and exclusionary language specific to certain global and widespread Cyber incidents, reflecting decreasing carrier appetites to fully cover ransomware costs. Additionally, the underwriting process has become much more intense.
- As rate hikes are likely to continue, insureds may offset these costs by assuming greater self-insured retentions and taking an even greater role in actively managing cyber risk.

Maximizing Renewal Success: Best Practices Across Coverages

We recommend the following actions and considerations in preparing for a successful renewal. These tips and best practices apply to all lines of coverage.

- Start early; build in time for delays in the quoting process. We recommend four to six months ahead of your renewal date to begin gathering data.
- Communicate early and often with your internal and external stakeholders.
- Create a thorough underwriting submission that is accurate and up-to-date, including narrative regarding lessons learned from losses and steps you are taking to prevent future losses. Risk managers need to be willing to change and evolve with the times or will face an uphill battle with regard to renewal.
- Take the opportunity to strengthen your risk readiness by identifying and remediating vulnerabilities. Showcase positive risk factors.
- Be proactive with providing information such as third-party valuation reports, third-party engineering reports, information on assets, lists of tenants in a warehouse, outstanding recommendations from their incumbent carrier, operations, loss mitigation and loss prevention plans, etc. Providing accurate and ample information is important given how selective underwriters have become.
- Be ready for supplemental applications that may involve highly specific questions around specialized areas such as Cyber. For example, a Cyber renewal may have dozens of questions around controls specifically designed to prevent or mitigate the effects of ransomware attacks.
- If a carrier offers or discounted risk management services, such as the services offered by many Cyber insurance carriers, such as employee training; incident response planning; and technology scans to flag known vulnerabilities, identify intrusions and address security flaws, take advantage of the opportunity.
- Develop relationships with underwriters, including your incumbent and alternatives.
- Align primary and excess marketing strategies to maximize options. If appropriate, consider leveraging ancillary lines or alternative structures, such as captives and other layered and shared solutions.
- With rate adequacy improving, it may be time to broaden your horizons in marketing your business. There are more companies now than in the recent past that may be interested in underwriting your risks. There are many more insurers willing to listen to your story and, at a minimum, consider what's in it for them.

While market conditions have begun to stabilize, this remains a somewhat challenging marketplace overall. We expect to see rates to continue to moderate in many lines throughout 2022, with the exception of Cyber and Workers' Compensation insurance, which remains the most challenging lines. Gallagher has expert leaders in all industries and coverage lines to provide solutions for our clients in this marketplace.

About Our Data

Gallagher Drive® is our premier data and analytics platform that combines market condition, claims history and industry benchmark information to give our clients and carriers the real-time data they need to optimize risk management programs. When used as part of **CORE360®**, our unique comprehensive approach to evaluating our client's risk management program, Gallagher Drive creates meaningful insights to help them make more informed risk management decisions, find efficient use of capital, and identify the top markets with the best solutions for their risks.

Rate changes in this report were calculated by using the changes in premium and exposure of Gallagher clients renewing in Q1 2022.

About the Contributors



Linton “B.” Puckett is responsible for the leadership of Gallagher’s National Market Relations practice. In this role, B. is responsible for developing and managing strategic carrier and intermediary relationships in Gallagher’s U.S. Brokerage division. B. leads SmartMarket, Gallagher’s platform that couples data with a dedicated engagement model to enhance carrier relationship strategies. B. also leads Gallagher’s Client Advantage strategy, which partners with carriers to bring proprietary products and solutions to clients.

Linton B. Puckett

Vice President, Market Relations Leader for Gallagher Global Brokerage — U.S.

Linton_Puckett@ajg.com



Mark Stachura is responsible for the leadership of Market Relations & Placement, and developing and managing strategic carrier relationships in Gallagher’s Central Zone. In addition, Mark is responsible for all placement teams and activities within the Midwest, South Central and Great Lakes regions.

Mark Stachura

Regional Vice President, Market Relations & Placement for Gallagher Global Brokerage — U.S.

Mark_Stachura@ajg.com

[For more information, contact your local Gallagher representative.](#)

*Source: Gallagher Drive U.S. Client Data, January 2022 – March 2022. The median is the value separating the higher half from the lower half data sample (or the middle value). Due to the variability that we’re seeing in this market and specific account characteristics, individual rates may vary.



Gallagher

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Bloomington and Normal Water Reclamation District

CONSENT AGENDA ITEM NO. B

BOARD MEETING DATE: June 13, 2022

SUBJECT: Approval of Agreement with Remote Site Communication Systems West Plant Upgrade

PREPARED BY: Jake Callahan, Director of Operations & Maintenance

REVIEWED BY: Timothy L. Ervin, Executive Director

STAFF RECOMMENDATION: That the Agreement with Second Sight Systems, LLC be approved in the amount of \$30,118.29 and Staff authorized to sign the necessary documents.

ATTACHMENTS: Quotes from Second Sight Systems, LLC for two options to upgrade remote site communication systems and monthly recurring charges estimate for cellular option from AT&T FirstNet

BACKGROUND:

The West Plant and SE Plant currently have independent radio frequency (RF) Network systems utilizing serial-based telemetry radio systems by TeleDesign operating in the 460 MHz range. These systems allow data communication from remote sites to each Plant. TeleDesign radio units are now obsolete with TeleDesign going out of business as of 2020. Replacement units can no longer be purchased, nor can technical support be obtained for these units. This makes any system utilizing these units vulnerable to reliability issues as well as potential permanent failure at one or all sites.

West Plant RF Network system consists of communications between the West Plant Access Point at Excess Flow to remote sites including CSO Lagoon, West Slough CSO, Hungarian Club, and Caroline St. Communication, SCADA monitoring, and SCADA control with these remote sites is solely dependent on the RF Network system functioning. A redundant communication protocol will be implemented once the in progress private fiber network project is completed and budgeted upgrades to Programmable Logic Controllers (PLC's) at these locations are installed.

SE Plant RF Network system consists of communications between the SE Plant Access Point at Headworks from repeater at the City Bloomington Hamilton Road Water Tower to remote sites GE Valley Pump Station and LKPS Pump Station. Back-up communication systems for the SE Plant systems include a firewalled VPN Ethernet connection over a private fiber network from our local ISP (Frontier). Reliability issues with the SE Plant RF Network system has resulted in Operations

primarily using the back-up communication system. This decision has proven to be effective even during inclement weather when the SE Plant RF Network system commonly fails.

As a result of the District's existing RF system components being obsolete and the observed reliability issues, Staff initiated conversations with a vendor specializing in remote site industrial communication systems. In November 2021 Second Sight Systems (SSS) completed a comprehensive RF path study for the District in order to make system recommendations for improving the reliability, security, and performance of this critical infrastructure.

This study verified the viability of continuing to use a 450 MHz licensed RF or implementing a new cellular based IP based radio system. Findings from this study indicated an upgrade of radio equipment to maintain the 450 MHz system equipment would require a modification to the existing FCC license. Specifically increasing the transmit power to 10 watts and total effective radiated power to 80 watts to achieve suitable reliability. The license emission designator would also need to be changed.

Staff is recommending the conversion of a cellular based IP based radio system to replace the existing obsolete 450 MHz radio system for remote site communications based on the superior reliability, bandwidth, and supportability when compared to the 450Mhz radio system option. The speed at which data is successfully transmitted is referred to as throughput. Nominal data transfer rate for the 450Mhz radio system option is approximately 120 Kilobits per second. Cellular carriers can offer speeds of 2-5 megabits per second, nearly 100x faster. Drawbacks of the cellular option include; recurring monthly carrier charges, outages would be outside of the District's control, and carrier would own transmission path. Redundant communication systems will address any outage situations. The advantages of the cellular radio system option outweigh the responsibility to maintain the 450Mhz system.

The 2021 SSS RF path study recommended that AT&T FirstNet Black Sims be used if the District determined a cellular system is the best option. As critical infrastructure, AT&T program offers municipalities such as the District priority over the cellular network at a level just below first responders. Staff has obtained monthly recurring charge estimate for cellular service from AT&T which is attached with this memo.

Staff is requesting authorization to issue purchase order authorization to SSS for the implementation of required equipment to convert West Plant and SE Plant communication systems to a cellular based system in the amount of \$30,118.29. Staff is also requesting authorization to enter into an agreement with AT&T FirstNet for monthly wireless services for the cellular based system. The monthly recurring charge is \$279.92.

BUDGET IMPACT:

FY 2022-2023 EQF budget includes \$75,000.00 in the Remote Site Communication System Improvements line item for which this work would be expensed. Monthly recurring charges would be expensed to the General Operating budget.



12949 Maurer Industrial Drive
St Louis, MO 63127

Phone # (844) 789-9111
E-mail dan.dieckmann@sssrf.com

<h1>Quotation</h1> <p>Bloomington & Normal Reclamation Dist. 2015 West Oakland Avenue Bloomington, IL 61701</p>	Quotation No: 220428DD1
	Date 4/28/2022
	Valid Until: 6/28/2022
	Rep AK

Terms:	1% 10 Net 30	Project:	
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Description	Qty	U/M	Rate	Total
BNWRD 450Mhz Radio System This quote is to install a new radio system for BNWRD. The current radio system will be replaced with new GE MDS Master stations at CSO Data Concentrator and Hamilton Water Tower. At the remaining sites new GE MDS ECR LN4 radios will be installed. All these radios will use the existing 450Mhz radio licensed frequencies. Modifications to the FCC filing for this band may need to be made and will be the customers responsibility to implement. SSS will provide technical information to assist in the FCC filing. The radio systems will stay separate as they are now with their being a SE plant network and a West Plant network. The radios will be installed in existing enclosures/locations. New coax will be run with new hangers, antenna mounts, antennas, lightning arrestors, power supplies, etc (the existing antenna will not be replaced at the CSO Concentrator location since it is new). SSS will install these items, power up the radios, program the radios and				

Thank you for the opportunity to allow Second Sight Systems to provide an estimate for your project, and I look forward to servicing your future order.	Subtotal
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Signature: <u>Dan Dieckmann</u>	Sales Tax (6.25%)
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<u>Dan Dieckmann</u>	Total
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	Rep AK

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Description	Qty	U/M	Rate	Total	
verify acceptable signals. SSS will document the installations and signal strengths at each location and provide proof showing this information. SSS will warrant the craftsmanship of the installation for 1 year. The equipment warranties will be provided by the manufacturers. The GE MDS radios have a 5 year warranty.					
Materials					
CSO Data Concentrator					
MDS Orbit Licensed Master Station, LN4 Licensed Narrowband 450-520MHz, Redundant, Simplex/Switched Carrier, Combined RX/TX, Redundant 110-220VAC power, US/ FCC compliant.	1	ea	7,544.00	7,544.00	
Other materials such as antennas, LDF4 coax, connectors, jumpers, lightning arrestors, bulkheads, antenna mounts, power supply, 19" rack with UPS, misc hardware	1		2,990.67	2,990.67	
CSO Lagoon					

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	Valid Until: 6/28/2022
	Rep AK

Terms:	1% 10 Net 30	Project:			
Description	Qty	U/M	Rate	Total	
Orbit Licensed Narrowband 450-520 MHz Frequency Range: 450 to 520 MHz Channel Size: 12.5KHz, 25KHz, 50KHz Modulations: QPSK, 16QAM, 64QAM with bi-directional Adaptive Modulation Speed: up to 240Kbps raw data rate TX Power: Up to 10 Watts	1	ea	1,230.40	1,230.40	
Other materials such as antennas, LMR400 coax, connectors, jumpers, lightning arrestors, bulkheads, antenna mounts, power supply, misc hardware	1		1,150.78	1,150.78	
CSO West Slough Orbit Licensed Narrowband 450-520 MHz Frequency Range: 450 to 520 MHz Channel Size: 12.5KHz, 25KHz, 50KHz Modulations: QPSK, 16QAM, 64QAM with bi-directional Adaptive Modulation Speed: up to 240Kbps raw data rate TX Power: Up to 10 Watts	1	ea	1,230.40	1,230.40	
Other materials such as antennas, LMR400 coax, connectors, jumpers, lightning arrestors, bulkheads, antenna mounts, power supply, attenuators, misc hardware CSO Hungarian Club	1		1,463.29	1,463.29	

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Date 4/28/2022
Valid Until: 6/28/2022
Rep AK

Terms:	1% 10 Net 30	Project:			
Description	Qty	U/M	Rate	Total	
Orbit Licensed Narrowband 450-520 MHz Frequency Range: 450 to 520 MHz Channel Size: 12.5KHz, 25KHz, 50KHz Modulations: QPSK, 16QAM, 64QAM with bi-directional Adaptive Modulation Speed: up to 240Kbps raw data rate TX Power: Up to 10 Watts	1	ea	1,230.40	1,230.40	
Other materials such as antennas, LMR400 coax, connectors, jumpers, lightning arrestors, bulkheads, antenna mounts, power supply, attenuators, misc hardware Caroline Street	1		1,055.38	1,055.38	
Orbit Licensed Narrowband 450-520 MHz Frequency Range: 450 to 520 MHz Channel Size: 12.5KHz, 25KHz, 50KHz Modulations: QPSK, 16QAM, 64QAM with bi-directional Adaptive Modulation Speed: up to 240Kbps raw data rate TX Power: Up to 10 Watts	1	ea	1,230.40	1,230.40	
Other materials such as antennas, LMR400 coax, connectors, jumpers, lightning arrestors, bulkheads, antenna mounts, power supply, attenuators, misc hardware SE Headworks	1		1,200.48	1,200.48	

Thank you for the opportunity to allow Second Sight Systems to provide an estimate for your project, and I look forward to servicing your future order.

Subtotal

Signature: Dan Dieckmann

Sales Tax (6.25%)

Dan Dieckmann

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Quotation No: 220428DD1
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Valid Until: 6/28/2022
Rep AK

Terms:	1% 10 Net 30	Project:			
Description	Qty	U/M	Rate	Total	
Orbit Licensed Narrowband 450-520 MHz Frequency Range: 450 to 520 MHz Channel Size: 12.5KHz, 25KHz, 50KHz Modulations: QPSK, 16QAM, 64QAM with bi-directional Adaptive Modulation Speed: up to 240Kbps raw data rate TX Power: Up to 10 Watts	1	ea	1,230.40	1,230.40	
Other materials such as antennas, LMR400 coax, connectors, jumpers, lightning arrestors, bulkheads, antenna mounts, power supply, attenuators, misc hardware Hamilton Road Water Tower	1		1,155.78	1,155.78	
MDS Orbit Licensed Master Station, LN4 Licensed Narrowband 450-520MHz, Redundant, Simplex/Switched Carrier, Combined RX/TX, Redundant 110-220VAC power, US/ FCC compliant.	1	ea	7,544.00	7,544.00	
Other materials such as antennas, LDF4 coax, connectors, jumpers, lightning arrestors, bulkheads, antenna mounts, power supply, 19" rack with UPS, misc hardware Little Kickapoo Pump Station	1		4,091.88	4,091.88	

Thank you for the opportunity to allow Second Sight Systems to provide an estimate for your project, and I look forward to servicing your future order. Signature: <u>Dan Dieckmann</u> <u>Dan Dieckmann</u>	Subtotal
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Terms:	1% 10 Net 30	Project:			
Description	Qty	U/M	Rate	Total	
Orbit Licensed Narrowband 450-520 MHz Frequency Range: 450 to 520 MHz Channel Size: 12.5KHz, 25KHz, 50KHz Modulations: QPSK, 16QAM, 64QAM with bi-directional Adaptive Modulation Speed: up to 240Kbps raw data rate TX Power: Up to 10 Watts	1	ea	1,230.40	1,230.40	
Other materials such as antennas, LMR400 coax, connectors, jumpers, lightning arrestors, bulkheads, antenna mounts, power supply, attenuators, misc hardware	1		893.68	893.68	
GE Valley Pump Station Orbit Licensed Narrowband 450-520 MHz Frequency Range: 450 to 520 MHz Channel Size: 12.5KHz, 25KHz, 50KHz Modulations: QPSK, 16QAM, 64QAM with bi-directional Adaptive Modulation Speed: up to 240Kbps raw data rate TX Power: Up to 10 Watts	1	ea	1,230.40	1,230.40	
Other materials such as antennas, LMR400 coax, connectors, jumpers, lightning arrestors, bulkheads, antenna mounts, power supply, attenuators, misc hardware	1		1,442.14	1,442.14	
Subtotal - Materials				39,144.88	
Labor and Travel					

Thank you for the opportunity to allow Second Sight Systems to provide an estimate for your project, and I look forward to servicing your future order.	Subtotal
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	Valid Until: 6/28/2022
	Rep AK

Terms:	1% 10 Net 30	Project:		
Description	Qty	U/M	Rate	Total
RF Tech	120		120.00	14,400.00
Charge for Technician staying overnight	19		210.00	3,990.00
Mobilization Charge - Travel, Mileage, Etc	3		2,500.00	7,500.00
Engineering Labor	11		175.00	1,925.00
SSS Bucket Truck Rental	7		350.00	2,450.00
Bucket Truck Mileage	500		1.00	500.00
Subtotal Labor and Travel				30,765.00
<p>Assumptions and Exceptions All building grounds are assumed to already be installed and SSS can and will connect to them. No trenching is included in this quote. Additional charges will apply if trenching is needed It is assumed all existing conduit and building ports are open and free of obstructions and can be used to pull cables. Customer accepts the system after installation is complete and documentation has been provided. SSS assumes the customer will provide timely access to customer facilities without delay. Currently product lead times are 6-8 weeks. No coax will be run in conduit</p>				
<p>Thank you for the opportunity to allow Second Sight Systems to provide an estimate for your project, and I look forward to servicing your future order.</p>				<p>Subtotal</p>

Signature: Dan Dieckmann
Dan Dieckmann

Sales Tax (6.25%)

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	Date 4/28/2022
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	Rep AK

Terms:	1% 10 Net 30	Project:			
Description	Qty	U/M	Rate	Total	
<p>except in locations where it currently is doing so. SCADA traffic will need to be filtered by the customer to transmit only necessary traffic. IP traffic can be noisy and the throughput will be degraded with excess, unnecessary transmissions. At the GE Valley Pump Station it is assumed that the Customer or Utility will provide the pole and grounding system.</p>					

<p>Thank you for the opportunity to allow Second Sight Systems to provide an estimate for your project, and I look forward to servicing your future order.</p> <p>Signature: <u>Dan Dieckmann</u></p> <p><u>Dan Dieckmann</u></p>	Subtotal
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Quotation No: 220428DD1
Date 4/28/2022
Valid Until: 6/28/2022
Rep AK

Terms:	1% 10 Net 30	Project:			
Description		Qty	U/M	Rate	Total

Thank you for the opportunity to allow Second Sight Systems to provide an estimate for your project, and I look forward to servicing your future order.		Subtotal	\$69,909.88
Signature: <u>Dan Dieckmann</u>		Sales Tax (6.25%)	\$0.00
<u>Dan Dieckmann</u>		Total	\$69,909.88

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St Louis, MO 63127

Phone # (844) 789-9111
E-mail dan.dieckmann@ssrf.com

Quotation

Bloomington & Normal Reclamation Dist.
2015 West Oakland Avenue
Bloomington, IL 61701

Quotation No: 220526AK1
Date 5/26/2022
Valid Until: 6/28/2022
Rep AK

Terms:	1% 10 Net 30	Project:			
Description		Qty	U/M	Rate	Total
<p>BNWRD Cellular Radio System This quote is to install a new radio system for BNWRD. The current radio system will be replaced with new GE MDS cellular radios. At CSO Data Concentrator and SE Headworks a GE MDS MCR 4 port cellular radios will be used, and at all the other sites we will use GE MDS ECR cellular radios. All these radios will use AT&T Firstnet Sim Cards. The customer will acquire the cellular service with static IP addresses. SSS will assist with technical information for the cellular service. The radios will be installed in existing enclosures/locations. New coax will be run with new hangers, antenna mounts, antennas, lightning arrestors, power supplies, etc to provide an acceptable cellular signal. SSS will install these items, power up the radios, program the radios and verify acceptable signals. SSS will configure an IP SEC tunnel to all the sites and this will provide a secure communication medium to transmit data between the sites. SSS will document the</p>					
Thank you for the opportunity to allow Second Sight Systems to provide an estimate for your project, and I look forward to servicing your future order.				Subtotal	
Signature: <u> Dan Dieckmann </u>				Sales Tax (6.25%)	
<u> Dan Dieckmann </u>				Total	

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Quotation Bloomington & Normal Reclamation Dist. 2015 West Oakland Avenue Bloomington, IL 61701	Quotation No: 220526AK1
	Date 5/26/2022
	Valid Until: 6/28/2022
	Rep AK

Terms:	1% 10 Net 30	Project:			
Description	Qty	U/M	Rate	Total	
installations and signal strengths at each location and provide proof showing this information. SSS will warrant the craftsmanship of the installation for 1 year. The equipment warranties will be provided by the manufacturers. The GE MDS radios have a 5 year warranty.					
Materials GEMDS Orbit ECR, Cellular 4GB, 4G LTE-A Pro - US - Band 14, CBRS, Band 8 - Dual SIM, No Second Media, DIN, US (FCC) FirstNet	6	ea	764.40	4,586.40	

Thank you for the opportunity to allow Second Sight Systems to provide an estimate for your project, and I look forward to servicing your future order. Signature: <u>Dan Dieckmann</u> <u>Dan Dieckmann</u>	Subtotal
	Sales Tax (6.25%)
	Total

Unless quoted above, shipping and handling are not included and will be added to the Invoice.



12949 Maurer Industrial Drive
St Louis, MO 63127

Phone # (844) 789-9111
E-mail dan.dieckmann@sssr.com

<h2 style="margin: 0;">Quotation</h2> <p>Bloomington & Normal Reclamation Dist. 2015 West Oakland Avenue Bloomington, IL 61701</p>	<p>Quotation No: 220526AK1 Date: 5/26/2022 Valid Until: 6/28/2022 Rep: AK</p>
---	---

Terms:	1% 10 Net 30	Project:			
Description	Qty	U/M	Rate	Total	
Cellular 4GB: 4G LTE-A Pro - US - Band 14, CBRS, Band 8 - Dual SIM Frequencies: LTE Cat 12 Bands 1, 2, 3, 4, 5, 7, 8, 9, 12, 13, 14, 18, 19, 20, 26, 29, 30, 32, 46, 66 (FDD); 41, 42, 43, 48 (TDD) Fall Back Options: 3G DC-HSPA+ (42/11 Mbps) 1, 2, 4, 5, 6, 8, 9, 19 Peak Download/Upload Rate: 100/100 Mbps GPS 4 Ethernet Ports, 2 Serial Antennas: MIMO Approval/Certification: FCC, IC, PTCRB, Verizon, AT&T	2	ea	947.10	1,894.20	
Other materials such as antennas, LDF4 coax, connectors, jumpers, lightning arrestors, bulkheads, antenna mounts, power supply, misc hardware Subtotal - Materials	8		1,130.21125	9,041.69	
Labor and Travel					
RF Tech	68		124.35294	8,456.00	
Charge for Technician staying overnight	9		210.00	1,890.00	
Mobilization Charge - Travel, Mileage, Etc	1		2,500.00	2,500.00	
Engineering Labor	10		175.00	1,750.00	

Thank you for the opportunity to allow Second Sight Systems to provide an estimate for your project, and I look forward to servicing your future order.	Subtotal
Signature: <u> Dan Dieckmann </u> <u> Dan Dieckmann </u>	Sales Tax (6.25%)
	Total

Unless quoted above, shipping and handling are not included and will be added to the Invoice.



12949 Maurer Industrial Drive
St Louis, MO 63127

Phone # (844) 789-9111
E-mail dan.dieckmann@ssrf.com

Quotation

Bloomington & Normal Reclamation Dist.
2015 West Oakland Avenue
Bloomington, IL 61701

Quotation No: 220526AK1
Date 5/26/2022
Valid Until: 6/28/2022
Rep AK

Terms:	1% 10 Net 30	Project:			
Description	Qty	U/M	Rate	Total	
Subtotal Labor and Travel				14,596.00	
Assumptions and Exceptions All building grounds are assumed to already be installed and SSS can and will connect to them. No trenching is included in this quote. Additional charges will apply if trenching is needed It is assumed all existing conduit and building ports are open and free of obstructions and can be used to pull cables. Customer accepts the system after installation is complete and documentation has been provided. SSS assumes the customer will provide timely access to customer facilities without delay. Currently product lead times are 6-8 weeks. No coax will be run in conduit except in locations where it currently is doing so.					
Thank you for the opportunity to allow Second Sight Systems to provide an estimate for your project, and I look forward to servicing your future order.				Subtotal	\$30,118.29
Signature: <u>Dan Dieckmann</u> Dan Dieckmann				Sales Tax (6.25%)	\$0.00
				Total	\$30,118.29

Unless quoted above, shipping and handling are not included and will be added to the Invoice.



Scott Buffington
 FirstNet Solution Consultant
 Public Safety Solutions

M 217.737.0106 sb9128@att.com

6/2/2022

Monthly Recurring Services

Wireless Service

Plan Description	Monthly Charges	Data	Talk	Text	Quantity	Total Monthly Charges*
FirstNet Unlimited Data Plan	\$34.99	Unlimited			8	\$ 279.92
						\$ -
						\$ -
						\$ 279.92

*Un-Throttled, truly unlimited talk, text, data plan, with both priority & preemption

One Time Charges

Devices and Features

Description	Device Cost	Quantity	One Time
FirstNet Black SIM Cards		8	\$ -
			\$ -
			\$ -
			\$ -
			\$ -

Summary

Monthly Recurring Charges*	\$ 279.92
One Time Equipment Charges	\$ -

*Specific to conditions above

*Proposal Valid until end of month listed.. Final pricing is subject to ultimate device and payment options selected. This information provided to you 'as is' and for informational purposes only. The rate(s) quoted above are estimates of the monthly charges for the identified plans (which may include, subject to availability/eligibility, certain contractual discounts - see applicable business agreement for details) and are based on information provided by the customer. Actual savings, if any, and costs may vary. In no event shall AT&T be liable for any damages relating to the use or results of this information. Rates are for the identified plans only, and do not include additional devices, discounts, features or services. Rates may change and do not include taxes, fees, overage charges and surcharges. Upgrade fees, additional deposits and other restrictions may apply. To receive bill credits, customer must stay on Mobile Share Flex for at least 120 days. AT&T promotional offers/rate plans subject to expiration dates. Installment Plans require qualifying credit & wireless service plan (voice & data for smartphones, data for tablets). Tax due at sale. If service cancelled, device balance is due. 50% off is a Limited Time Offer. Pricing does not include actual international usage, US or foreign taxes, FCC regulated charges, overages, other taxes or fees. Taxes estimated at 14%. Actual taxes may vary.

*Proposal Valid for 13 days. Final pricing is subject to ultimate device and payment options selected. This information provided to you 'as is' and for informational purposes only. The rate(s) quoted above are estimates of the monthly charges for the identified plans (which may include, subject to availability/eligibility, certain contractual discounts - see applicable business agreement for details) and are based on information provided by the customer. Actual savings, if any, and costs may vary. In no event shall AT&T be liable for any damages relating to the use or results of this information. Rates are for the identified plans only, and do not include additional devices, discounts, features or services. Rates may change and do not include taxes, fees, overage charges and surcharges. Upgrade fees, additional deposits and other restrictions may apply. To receive bill credits, customer must stay on Mobile Share Flex for at least 120 days. AT&T promotional offers/rate plans subject to expiration dates. Installment Plans require qualifying credit & wireless service plan (voice & data for smartphones, data for tablets). Tax due at sale. If service cancelled, device balance is due. 50% off is a Limited Time Offer. Pricing does not include actual international usage, US or foreign taxes, FCC regulated charges, overages, other taxes or fees. Taxes estimated at 14%. Actual taxes may vary.





Bloomington and Normal Water Reclamation District

CONSENT AGENDA ITEM NO. C

BOARD MEETING DATE: June 13, 2022

SUBJECT: Approve Resolution 2022-11 for Change Order 1 to expand the MultiLinQ solution (private fiber network) services by Stratus Networks to the Little Kickapoo Pump Station.

PREPARED BY: Timothy L. Ervin, Executive Director

REVIEWED BY: Jake Callahan, Director of Operations & Maintenance

STAFF RECOMMENDATION: That Resolution 2022-11 for Change Order 1 to expand the MultiLinQ solution with Stratus Networks to the Little Kickapoo Pump Station be approved in the amount of \$50,000 with the Executive Director authorized to execute necessary documents.

ATTACHMENTS: Quote from Stratus

BACKGROUND: On April 12, 2021, the Board of Trustees approved an agreement with Stratus Networks to provide communication services through a MultiLinQ solution (private fiber network) to seven District facilities and the Hamilton Road Water Tower in Bloomington. As a result of this infrastructure, the District will obtain multiple benefits such as the increase and speed/reliability of its internet service, fortification of data stored online, and enhanced security. The system is in the final stages of construction and is set to come online in the summer of 2022.

When the initial agreement was reached there were no viable opportunities to connect the Southeast Wastewater Plant or the Little Kickapoo Pump Station to the private fiber network. On May 16, 2022, the Board of Trustees approved the installation of fiber to the Southeast Plant. Similar to the Southeast Plant, with the ongoing expansion of the fiber network within McLean County, the District has been provided the opportunity to connect the Little Kickapoo Pump Station to the District's private fiber network provided by Status. Implementing this project will result in a private fiber network at all District-owned facilities. This action is highly recommended by the CLA cybersecurity experts in their ongoing analysis of the District's information technology infrastructure.

Currently, the internet is provided to the Little Kickapoo Pump Station via a wireless connection originating from the West Plant to the Hamilton Road Water Tower and then to the local/in-house facility fiber connection at the pump station. Wireless communication systems are known

to present security risks that can be mitigated by implementing a dedicated private fiber network to the Little Kickapoo Pump Station. The implementation of a direct private fiber network connection to this site will eliminate the need for a wireless communication pathway from the Hamilton Road Water Tower. Elimination of the wireless network hardware and planned replacement of the radio telemetry communication system with cellular service would permit the District to vacate the easements for the City-owned Hamilton Road Water Tower. Staff requires access to the Hamilton Road Water Tower as the radio system which connects GE Valley Pump Station and Little Kickapoo Pump Station houses the repeater equipment in addition to the current wireless internet hardware.

BUDGET IMPACT: Stratus has provided a quote of a one-time upfront fee of \$50,000 with a monthly recurring cost of \$1,175. The District's Short-Term Capital Fund would offset \$25,000 within the fiber optic installation line item while the remaining \$25,000 would be offset by the contingency line item. Staff plans to create a fiber network line item to track the monthly cost for the private fiber network.

RESOLUTION 2022 – 10

A RESOLUTION APPROVING CHANGE ORDER 1 TO EXPAND THE PRIVATE FIBER NETWORK TO THE LITTLE KICKAPOO PUMP STATION

WHEREAS, the Bloomington and Normal Water Reclamation District of McLean County, Illinois, previously entered into a contract with Stratus Networks to provide a MultiLinQ solution for the private fiber network to District facilities contract dated April 12, 2021, and

WHEREAS, the contract had location service contracts from Stratus Networks for each District facility, and

WHEREAS, the addition of the Little Kickapoo Pump Station provides the following:

- Elimination of security risks that can be mitigated by implementing a dedicated private fiber network.
- Eliminate the need for a wireless communication pathway from the Hamilton Road Water Tower.
- Elimination of the wireless network hardware and planned replacement of the radio telemetry communication system with cellular service would permit the District to vacate the easements for the City-owned Hamilton Road Water Tower.

WHEREAS, this will result in the following changes:

Location contract upfront fee:	\$ 50,000
Monthly Recurring Cost	\$ 1,175

Now, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE BLOOMINGTON AND NORMAL WATER RECLAMATION DISTRICT

- A. That the Executive Director is authorized to execute the above-described change order.
- B. A copy of this resolution shall be placed with the District's records concerning this contract.

Dated: June 13, 2022.

Paul Brown, President
Board of Trustees
Bloomington and Normal Water
Reclamation District

ATTEST:

Jeffrey Feid, District Clerk



Date: 5/27/2022
 Steve Topp
 Stratus Networks
 630-258-1299

Notes: Stratus Pricing is Confidential
 Applicable Taxes are not Included in MRC
 Pricing is Valid for 45 Days
 Fiber Services will Require a Site Survey to Determine Final Construction
 Does Not Include Demarc Extension or any Associated Cross Connect Fees
 Stratus Managed Router is Not Included Unless Specified
 Pricing is Based on Bundled Rates
 **Estimated fiber delivery is 180 days

Customer Name	Rep Requesting
Bloomington & Normal Water Reclamation District	Steve Topp

****Service: MultiLinQ**

Address	Bandwidth (Mbps)	*Stratus Managed Router (Additional MRC)	7 Year	
			MRC	NRC
13458 E 850 N Rd, Bloomington, IL 61705	100	NA	\$ 1,175.00	\$ 50,000.00



Bloomington and Normal Water Reclamation District

CONSENT AGENDA ITEM NO. D

BOARD MEETING DATE: June 13, 2022

SUBJECT: Approve Ordinance 2022-11 for the Updates to Section 8-11, Personal Protective Equipment (PPE).

PREPARED BY: Renee Gooderham, HR Manager

REVIEWED BY: Timothy L. Ervin, Executive Director

STAFF RECOMMENDATION: That Ordinance 2022-10 for the Updates to Section 8-11, Personal Protective Equipment (PPE) be approved.

ATTACHMENTS: Ordinance 2022-10

BACKGROUND: Due to inflation the required protective footwear has increased in cost. The District currently works with Red Wing Shoe Store to obtain the best pricing. Staff has adjusted the Employee Handbook to reflect the price increase.

The other change within the Personal Protective Equipment section is a clarification of responsibility.

BUDGET IMPACT: None.

Ordinance No 2022 - 10

**An Ordinance Revising Sections 8-11, Personal Protective Equipment (PPE)
in the Employee Handbook**

Whereas, the Bloomington Normal Water Reclamation District has authority to legislate for the proper management and conduct the business of the District; and

Whereas, the Administrative Department has recommended that Section 8-11, Personal Protective Equipment (PPE) be revised in the Employee Handbook and restated to incorporate the changes, and reflect the intentions of the District with respect to its employees.

NOW, THEREFORE, BE IT ORDAINED by the Board of Trustees of the Bloomington Normal Water Reclamation District, McLean County, Illinois;

Section 1. A true and correct copy of the revised and restated Employee Handbook Section are attached hereto and incorporated herein by reference, as Exhibit A.

Section 2. That the attached Section 8-11, Personal Protective Equipment (PPE) amends and supplants the prior version thereof, which shall be deemed null and void, except as otherwise provided by law.

Section 3. That the HR Manager is hereby authorized to present the attached to District employees and publish this ordinance in pamphlet form as provided by law.

Section 4. This ordinance shall be effective immediately after the date of its publication as required by law.

Section 5. This ordinance is passed and approved pursuant to the Sanitary District Act of 1917, 70 ILCS 2401.

Passed and Approved this 13th Day of June 2022.

Paul Brown
Board of Trustees President

ATTEST:

Jeffrey K. Feid
Board of Trustees Clerk

Exhibit A

8-11 Personal Protective Equipment (PPE)

All BNWRD employees shall properly wear and/or use all necessary PPE at all times. Employees are required to have on at all times protective footwear, protective eyewear, and hard hats. Other PPE will be needed depending on the task or potential exposure to hazardous materials or surroundings. Employees shall refer to Job Hazard Analyses, operations manuals, and safety data sheets for specific PPE requirements. Other PPE may be required by your supervisor or the Safety Manager.

PPE is not required in the following locations when no maintenance activity is occurring:

- Office spaces
- Break rooms
- Locker rooms or bathrooms
- Plant control rooms
- Inside enclosed vehicles

The Safety Manager or your supervisor may specify other locations or situations where PPE is not needed. This will be based on an evaluation of job hazards and/or surrounding hazards.

Employees shall inspect all PPE prior to use. Any PPE that is degraded or altered in any manner shall not be used.

BNWRD will provide all necessary PPE. PPE from other sources are not allowed.

There are specific standards for PPE that must be adhered to. The following paragraphs outline these requirements:

- **Footwear:** Employees shall wear protective footwear meeting ANSI Z41-1999, ASTM F-2412-2005, or ASTM F-2413-2005. Later editions of these standards is acceptable. Footwear shall be either steel toe or composite toe construction, and electrical hazard (EH) designated by ASTM. BNWRD will provide protective footwear once per year to employees (more often if deemed necessary by your supervisor). Contact your supervisor or Human Resources for questions on (2020-011) protective footwear and acceptable vendors. ~~The District's limit on footwear is \$250 per pair which includes application of the toe guard. (2020-011)~~ **The footwear allowance is by the dictated by the retail market. The District's allowance will be \$300 per pair and includes toe guard, anything over this limit must be approved by the Safety Manager. (2022-10)**
- **Eyewear:** Employees shall wear protective eyewear, either glasses or goggles meeting ANSI/ISEA Z87.1-2010. Later editions of this standard are acceptable. Eyewear shall have non-removable side shields and be 99.9% or more UVA, UVB, and UVC rated. BNWRD will provide prescription eyewear once every two years to employees. Contact ~~Human Resources~~ **the Safety Manager (2022-10)** for the spending limit and acceptable vendors for prescription eyewear.
- **Head Protection:** Employees shall wear hard hats meeting ANSI Z89.1-2009, type 1 or 2, class E or G. Later editions of this standard are acceptable. Stickers, paint or any type of markings, other than those from the manufacturer, shall not be added to the hard hats. Hard hats shall only be worn in the manner specified by the manufacturer.
- **Hand Protection:** Appropriate gloves or other hand protection shall be used at all times. Specific glove standards are dependent on the nature of the work. Refer to Job Hazard Analyses, Safety Data Sheets, and Operation Manuals for the type of gloves necessary for the task.
- **Respiratory Protection:** Certain jobs require respirator protection. Respirators shall be NIOSH-certified for the specific type required. Workers need to be properly trained and tested in respirator use if working a job needing a respirator. Supervisors will evaluate each job

classification and determine what types of respirators are required. If facial hair needs to be removed for respirators to fit and work properly, employees are required to do so. Refer to the written BNWRD Respirator Protection Program for further details.

If desired, a respirator may be used at the request of an employee for nuisance dust or pollen, even if not trained or evaluated for the respirator. If so, the following information from OSHA needs to be reviewed by the employee:

“Respirators are an effective method of protection against designated hazards when properly selected and worn. Respirator use is encouraged, even when exposures are below the exposure limit, to provide an additional level of comfort and protection for workers. However, if a respirator is used improperly or not kept clean, the respirator itself can become a hazard to the worker. Sometimes, workers may wear respirators to avoid exposures to hazards, even if the amount of hazardous substance does not exceed the limits set by OSHA standards. If your employer provides respirators for your voluntary use, you need to take certain precautions to be sure that the respirator itself does not present a hazard.

You should do the following:

1. Read and heed all instructions provided by the manufacturer on use, maintenance, cleaning and care, and warnings regarding the respirator’s limitations.
2. Choose respirators certified for use to protect against the contaminant of concern. NIOSH, the National Institute for Occupational Safety and Health of the U.S. Department of Health and Human Services, certifies respirators. A label or statement of certification should appear on the respirator or respirator packaging. It will tell you what the respirator is designed for and how much it will protect you.
3. Do not wear your respirator into atmospheres containing contaminants for which your respirator is not designated to protect against. For example, a respirator designed to filter dust particles will not protect you against gases, vapors, or very small solid particles of fumes and smoke.

Keep track of your respirator so that you do not mistakenly use someone else’s respirator.”

- **Hearing Conservation:** Certain jobs and equipment expose workers to high noise levels. Hearing protection shall be used in areas of the plant posted as “Hearing Protection Required”. Hearing protection shall be used in certain jobs, or when using noisy equipment. Refer to Job Hazard Analyses and Operations Manuals for hearing protection requirements. Refer to the written BNWRD Hearing Conservation Program for further details.
- **High Visibility Safety Apparel:** Workers are required to wear ANSI/ISEA 107-2015 Class 1 or 2 high-visibility vests or outerwear when working outside the plant fence, especially in traffic areas or in construction areas. Later editions of this standard are acceptable. Exceptions to this requirement are while in enclosed vehicles, or buildings.



Bloomington and Normal Water Reclamation District

CONSENT AGENDA ITEM NO. E

BOARD MEETING DATE: June 13, 2022

SUBJECT: Adopt Resolution 2022-10 for the Executive Session Minutes from 1985 – 2022 Review

PREPARED BY: Renee Gooderham, HR Manager

REVIEWED BY: Timothy L. Ervin, Executive Director

STAFF RECOMMENDATION: That Resolution 2022-10 Reporting the Retention of Executive Session Minutes be adopted.

ATTACHMENTS: Resolution 2022-10.

BACKGROUND: Pursuant to the Open Meetings Act (5 ILCS 120/2.06(d)), a review of all closed session minutes has been completed. Staff has further determined that a need for confidentiality still exists as to the Executive Session Minutes from the meetings identified on Schedule A.

The minutes of each of the Executive Session meetings, identified on Schedule A, have been adopted. The verbatim recordings for all other Executive Session meetings occurring at least 18-months prior to this meeting should be destroyed.

BUDGET IMPACT:

None.

RESOLUTION NO. 2022-10

A RESOLUTION REPORTING THE RETENTION OF EXECUTIVE SESSION MINUTES

WHEREAS, the Board of Trustees for the Bloomington and Normal Water Reclamation District (BNWRD), Bloomington, Illinois has set from time to time an executive session for the purpose authorized by the Illinois Open Meetings Act (5 ILCS 120/1, *et seq.*); and

WHEREAS, pursuant to the requirements of 5 ILCS 120/2.06(d), a review of all closed session minutes has been completed; and

WHEREAS, the BNWRD has further determined that a need for confidentiality still exists as to the Executive Session Minutes from the meetings set forth in Schedule A, attached hereto and incorporated by reference herein; and

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE BLOOMINGTON AND NORMAL WATER RECLAMATION DISTRICT OF MCLEAN COUNTY, ILLINOIS, as follows:

Section 1. All recitals set forth above are hereby incorporated herein as if fully set forth in this

Section 2. The Executive Session Minutes from those meetings set forth on Schedule A should, and shall, remain confidential.

Section 3. The District Clerk is hereby authorized and directed to destroy the verbatim audio recording for those Executive Sessions occurring at least eighteen (18) months prior to this meeting of the Board of Trustees. The Board of Trustees hereby affirms that the meeting minutes of all such Executive Sessions have been previously approved.

Section 4. This Resolution shall be in full force and effect from and after its passage and approval according to law.

ADOPTED this 13th of June, 2022.

APPROVED this 13th of June, 2022.

Paul Brown, President
Board of Trustees
Bloomington and Normal Water Reclamation District

ATTEST:

Jeffrey Feid, Clerk
Board of Trustees
Bloomington and Normal Water Reclamation District

SCHEDULE A
TO BE RETAINED

DATE	REASON
November 1, 1985	Section 2 c(1) Personnel
April 17, 2002	Section 2 c(1) Personnel
May 13, 2002	Section 2 c(1) Personnel
March 10, 2003	Section 2 c(1) Personnel
September 13, 2004	Section 2 c(1) Personnel
May 9, 2005	Section 2 c(1) Personnel
November 6, 2009	Section 2 c(1) Personnel
March 12, 2014	Section 2 c(5) Purchase or Lease of Real Property
March 9, 2015	Section 2 c(1) Personnel
March 13, 2017	Section 2 c(1) Personnel
April 8, 2019	Section 2 c(1) Personnel
October 12, 2020	Section 2 c(1) Personnel
April 12, 2021	Section 2 c(1) Personnel
February 14, 2022	Section 2 c(5) Purchase or Lease of Real Property Section 2 c(1) Personnel
April 11, 2022	Section 2 c(5) Purchase or Lease of Real Property Section 1 Possible Litigation



Bloomington and Normal Water Reclamation District

CONSENT AGENDA ITEM NO. F

BOARD MEETING DATE: June 13, 2022

SUBJECT: Authorization for The Farnsworth Group to update the North Service Area Regional Pump Station, Forcemain, and Interceptor Location Study

PREPARED BY: Timothy L. Ervin, Executive Director

REVIEWED BY: Duane Lindeman, Director of Engineering

STAFF RECOMMENDATION: That the North Service Area Regional Pump Station, Forcemain, and Interceptor Location Study Update be approved and the Executive Director authorized to sign the necessary documents.

ATTACHMENTS: 2003 North Service Area Regional Pump Station, Forcemain, and Interceptor Location Study

BACKGROUND: Capital investment is an important contributor to economic development/growth and the service delivery capabilities of the District. It has been District policy to be prepared with collection and treatment facilities in time to meet the need before it constrains growth. Implicit in this policy is the recognition that client municipalities should set development policies and control growth with the availability of existing sewers. Successful economic development/growth requires coordinated long-term capital planning to ensure the appropriate needed infrastructure is in place to support development. Staff plans to initiate a multi-year project to update and centralize the District's 25-year Capital Improvement and Infrastructure Rehabilitation/Development Strategic Plan established in August 2001. It is Staff's intention to coordinate the plan with other municipalities within McLean County.

On October 13, 2003, the Farnsworth Group provided the Board with the North Service Area Regional Pump Station, Forcemain, and Interceptor Study. The study contained the findings to provide sewer service to the upper parts of the Six Mile Creek watershed lying north of I-55. Since 2003, minimal growth has been observed in this section of the community. Recently, with the economic impact of Rivian Automotive in combination with other development including the Loves Truck Stop north of I-55 this area has become a prime area for economic growth. Staff recommends the District update the North Service Area Regional Pump Station, Forcemain, and Interceptor Study Report. Historically, the District does not construct infrastructure for one unit

of government; however, long term, the infrastructure in this area has the potential to serve multiple municipalities. Staff would begin the revision of the strategic plan by focusing in this section of the community.

BUDGET IMPACT: An updated strategic plan will have a direct positive impact on the District's long-term capital budget. The capital budgeting process is an important determinant of the investment projects' quality and the implementation timeline. A number of important results flow from an effective capital plan which includes an examination of goals and needs capabilities, resource waste avoidance, enhanced community awareness, and sound financial management. It is estimated the update and integration of the new capital strategic plan will cost approximately \$30,000. The funds will be paid from the Short-Term Capital Fund.

**BLOOMINGTON & NORMAL
WATER RECLAMATION DISTRICT**

**NORTH SERVICE AREA
REGIONAL PUMP STATION, FORCEMAIN
AND INTERCEPTOR**

LOCATION STUDY REPORT

**PRESENTATION DRAFT
Board of Trustees Meeting
October 13, 2003**

ENGINEERS
ARCHITECTS
SURVEYORS
SCIENTISTS



Farnsworth
GROUP

2709 McGraw Drive • Bloomington, IL 61704
Phone 309-663-8435 • Fax 309-663-1571

www.f-w.com

**REPORT ON
NORTH SERVICE AREA
REGIONAL PUMP STATION, FORCEMAIN AND INTERCEPTOR
LOCATION STUDY
(OCTOBER 2003)**

STUDY OBJECTIVES

This report is a brief summary of the findings of a study to provide sewer service to the upper part of Six Mile Creek watershed lying north of I-55. The study was started in August 2002 in response to requests from City of Bloomington (Lake Bloomington area) and City of Lexington that the Bloomington and Normal Water Reclamation District consider providing a point for collection and conveyance for treatment of wastewater from their municipalities. Both Lexington and the City of Bloomington have had studies of sewerage system needs underway over this past year.

The objectives of the study were:

- Collate available information on growth trends in Six Mile Creek and determine development and waste collection priorities of interested municipalities.
- Locate an optimum position for a regional pumping facility in the upper region of Six Mile Creek watershed to provide a collection point for wastewater from the adjacent municipalities of Normal, Lake Bloomington, Hudson and Lexington.
- Define the major service basins tributary to the regional pump station location, and estimate sewage loads.
- Prepare schematic design of pump station, forcemain and interceptor facilities required for service.
- Evaluate phasing of facilities.
- Estimate program costs.
- Recommend next steps.
- Prepare a brief report on findings.
- The study did not address wastewater treatment plant capacity requirements which must yet be considered.

ASSUMPTIONS MADE

Following are the system design assumptions for estimating waste loads.

- All land was assumed to be developed as residential as worst case sewage load generation. Commercial area is expected to generate lighter loads.
- Gross area of each contributing drainage basin was adjusted by 90% to allow for undevelopable ground such as roads, major detention basins, parking and commercial areas.
- Unit housing density at 3.0 units per acre.
- Population at 3.5 persons per unit.
- Sewage load at 100 gal./capita/day
- Ratio of peak to average flow at 3.0
- All pumping and collection facilities designed for peak flows.
- The regional pump station waste load will be conveyed to the West Wastewater Treatment Plant (WWWTP).

PUMP STATION LOCATION

Figures 1 and 2 show the location selected for the regional pumping station on County Road 2000N about a quarter mile east of North Linden Street Road. Inspection of topographic maps and a field survey showed this location to be the optimum site north of the Town of Normal's (TON) developing area.

This conclusion was based upon the trade off between the length of interceptor and forcemain required to return flow to the West Wastewater Treatment Plant and the available developable ground tributary to the location. Normal's development is moving from the top of Six Mile Creek Basin downstream. Each step north in locating the regional pump station opens a wider area of basin tributary to the location and closer proximity to Hudson and Lake Bloomington. The location survey showed that the basin north of County Road 2000N was bounded by I-39 such that each mile north did not open significantly greater service area until Six Mile Creek crosses I-39. The next best location in the future is the main stem of Six Mile Creek just west of the Hudson I-39 interchange which intercepts the drainage area from both sides of I-39.

SERVICE AREAS AND LOAD PROJECTIONS

Service areas tributary to the proposed regional pump station location are shown in Figure 1. The basin east of I-39 has been named the North Linden Street Service Area for reference to the pump station location road landmark. The Ironwood Service Area shown cross-hatched in red is now served by the Northbridge Pump Station and forcemain. An existing North Airport Road Pump Station serving the area south of I-55 is also shown. The North Linden Basin unsewered area was used to develop waste load projections.

Areas lying west of I-39 are known to be a priority for the TON in commercial development plans. Therefore, these areas were included in the collection and pumping scheme.

With the construction of the North Linden Regional Pump Station, there are numerous options for the TON and others to configure sewage collection facilities as the basin develops. No attempt was made here to report on all the possibilities. It is sufficient for this report to say that the regional facility opens up options for the TON to serve the area south of I-55 and east of Towanda Barnes Rd. which was heretofore the limit of coverage. It also will provide ready access to service for the Village of Towanda as the TON grows to the east. The Town of Normal has allocation of 18 MGD capacity at the GE Road Interceptor south along Airport Road and has constructed forcemain capacity for that amount from the North Airport Road Pump Station.

Table 1A summarizes design waste load projections from the service basins tributary to the North Linden Pump Station. Table 1B summarizes the design projections for the basins that are in Normal's commercial development plans lying west of I-39, which can be served by the interceptor to the WWTP.

RECOMMENDED REGIONAL FACILITY DEVELOPMENT PLAN

Figure 2 shows the major features and locations of recommended facilities to provide sewer service to the Six Mile Creek Basins north of I-55 which were previously described. Following is a description of the facilities and recommendations for phasing construction as the service areas develop. (The bold face letters in parentheses refer to points shown on Figures 1 and 2.)

Regional Pump Station and Forcemains to serve the North Linden Street Basin, Village of Hudson and Lake Bloomington:

The design flow and other requirements for the North Linden Street Regional Pump Station is very close to that of the GE Road Pump Station now under construction. This same pump station design will serve well at the North Linden location. Figure 3 shows a concept plan of the design adapted for North Linden. Backup power will be required but is not shown in the figure.

The proposed design assumes that two 30-inch forcemains will be constructed. A single 36-inch pipe would serve, but would create odor and corrosion problems in the early years when tributary flows are relatively low. The two forcemains are shown in Figure 3.

Recommended phasing of station pumps and forcemains is as follows. Table 2 summarizes a recommended three-phase plan for pump installation and forcemain operation.

In Phase I construction, two parallel 30-inch diameter forcemains from North Linden Regional Pump Station site **(A)** west to high point on County Road 1300 E **(D)**. Design forcemain capacity for North Linden Service Area and expected flows from Hudson and Lake Bloomington.

Construct the full pump station structure **(A)** in Phase I.

Install pumps and operate forcemains according to the following phasing plan.

In Phase I, select pumps that would allow impeller and operating speed changes to increase capacity from 4,500 gpm to 6,300 gpm using the same volute and pump frame. In Phase I,

install the pump motors that would ultimately be required for Phase III, 6,300 gpm operation, and provide VFD motor control paced against wetwell flow level. Motors should be selected with wide safe operating ranges. In Phase I, install two pumps at 4,500 gpm each and operate one 30-inch forcemain.

In Phase II, install a third 4,500 gpm pump and operate both 30-inch forcemains.

In Phase III, change pump impellers (or provide new pumps) to increase unit pumping capacity to 6,300 gpm each. Continue to operate both 30-inch forcemains.

Trunks and Interceptors tributary to the North Linden St. Regional Pump Station

It is assumed that gravity trunk and interceptor sewers tributary to the North Linden Street Regional Pump Station would be constructed by the TON. Preliminary study did not fully resolve the economic feasibility of constructing the trunk sewer from **(B)** to the Regional Pump Station **(A)**. Deep cuts for sewer construction greater than 25 feet will be required, but will save construction and operation of another small pump station to serve parts of the North Linden Street Basin. Further evaluation is needed when the demand warrants.

Gravity Interceptor to West Wastewater Treatment Plant to Serve all Regional Pump Station Flow and the Development Areas West of I-39.

A preliminary (schematic) design of the interceptor was required in this study to verify best alignment and grade and to ensure that it could be constructed entirely on the east side of I-55. The alignment generally follows that of the existing Far West Sewer.

The Interceptor was sized for the peak flow expected from service areas north of I-55, including the Linden Street Basin, Section 5/8 Basin and Section 8/17 Basin. Tables 1A and 1B give sewage flow estimates for these basins. The Interceptor Design Peak Flow from Table 1B is 22.5 MGD (15,725 GPM). A single 36-inch diameter gravity sewer pipe with a friction factor of 0.013 and a minimum slope of 0.26% will provide capacity. The full interceptor must be constructed in Phase I from the Regional Pump Station forcemain discharge **(D)** to the West Wastewater Treatment Plant **(G)**.

The Section 5/8 Basin west of I-39 (Figure 1) flows north and will require a local TON Pump Station located at **(C)** to provide sewer service. For this study, it was assumed that that pump station would have a separate forcemain (approximately 12-inch diameter) routed from County Road 2000N to the beginning of the interceptor sewer **(D)**. However, if sewage flows do not develop in the North Linden Street Basin according to design assumptions, it may be possible to tie in the Section 5/8 pump station to the nearby 30-inch forcemains without need to increase pump motor sizes in the North Linden Regional Pump Station.

The Section 8/17 Basin lying just north of I-55 flows south and can be served with gravity trunk sewers from the interceptor at **(E)**. Service trunk sewers can be constructed by the TON when demand dictates.

The interceptor follows the Far West Sewer alignment but not the grade. It was decided not to connect the proposed 36-inch sewer to the smaller pipe sections of the Far West Sewer to avoid

cross flooding. Point (F) on Figure 2 shows where the proposed 36-inch and Far West Sewers must be interconnected because of grade conflicts.

At point (G) on Figure 2, a 42-inch pipe at flatter grade is required to cross under Sugar Creek and into the West Sewer Pump Station inlet box at the WWWTP.

The design assumed that boring and encasement would be required at all major street and railroad crossings.

ESTIMATED PROJECT COSTS

Cost to plan, design and construct the North Area Service Facilities described above are given in summary in Table 3. The North Linden Street Regional Pump Station is very similar in all respects to the GE Valley Pump Station, which is nearing completion as of this writing. The GE Valley costs were updated to 2003 and a contingency added for design, inspection and unknowns. The forcemain and interceptor estimates are based on unit prices taken from recent bidding experience. Major construction elements quantities are from map scale. Contingency includes engineering and unknowns.

Total project cost including contingencies is estimated at \$19,028,400.

RECOMMENDED NEXT STEPS

The need for a regional pump station, forcemain and interceptor to convey wastewater from the upper Six Mile Creek basin will depend upon the growth and development policies of Normal/Bloomington and the Village of Hudson and upon future market for housing. It has been BNWRD policy to be prepared with collection and treatment facilities in time to meet the need before it constrains growth. Implicit in that policy is the recognition that client municipalities should set development policy and control growth with availability of sewers.

The recommended North Linden Street Regional Collection facilities will require about 24 months for design, permitting and construction. Recent experience has shown that easement and rights-of-way acquisition can significantly extend this time.

Therefore, recognizing that the need for the north area regional facility is not immediate, we recommend that rights-of-way be acquired and the project put on hold until development trends are clearer. It is estimated that in addition to purchase of the pump station site, easement acquisition for right-of way through about 50 parcels will be required. Some of those parcels are large and prime candidates for immediate subdivision and development, which will substantially increase the acquisition task.

To prepare easement descriptions, additional preliminary design will be required to locate the pump station site and to verify forcemain and interceptor sewer alignments. (Preliminary design done for this study was on aerial topography with no field verification of locations.) Alignment will need to be field-staked and tied into property lines. Legal advice will be needed on how to describe temporary construction easements when the time of construction is not known. Easement plats will be prepared and assistance provided to the BNWRD attorney for property owner negotiations.

**TABLE 1A
 TRIBUTARY SERVICE AREA LOADS
 NORTH LINDEN STREET REGIONAL PUMP STATION
 (PUMP STATION DESIGN FLOWS)**

SERVICE AREA	GROSS AREA, ac.	FULL DEVEL, ac.	# UNITS, ea.	POP., p.e.	AVE. FLOW, MGD	AVE. FLOW, GPM	PEAK FLOW, MGD	PEAK FLOW, GPM
North Linden Street Basin	5,720	5,150	15,400	54,075	5.41	3,750	16.22	11,260
Village of Hudson	---	---	---	3,500	0.35	245	1.05	730
Lake Bloomington	---	---	---	2,100	0.21	145	0.63	440
Totals	5,720	5,150	15,400	59,675	5.97	4,140	17.90	12,430
Design for:	---	---	---	60,000	6.00	4,200	18.00	12,600

**TABLE 1B
 ADDITIONAL INTERCEPTOR LOADS
 FROM WEST SIDE I-39
 (INTERCEPTOR DESIGN FLOWS)**

SERVICE AREA	GROSS AREA, ac.	FULL DEVEL, ac.	# UNITS, ea.	POP., p.e.	AVE. FLOW, MGD	AVE. FLOW, GPM	PEAK FLOW, MGD	PEAK FLOW, GPM
Sections 5/8	1,190	1,070	3,210	11,235	1.12	780	3.37	2,340
Sections 8/17	400	360	1,080	3,780	0.38	265	1.13	785
Totals	1,590	1,430	3,290	15,015	1.50	1,045	4.50	3,125
*Design for:	---	---	---	75,000	7.50	5,250	22.50	15,725

* (Sum of Tables 1A and 1B)

**TABLE 2
 NORTH LINDEN PUMP STATION
 PUMP UNIT AND FORCEMAIN
 PHASING PLAN**

PHASE	STATION DESIGN CAPACITY**	PUMP UNITS, #/CAPACITY EA. OPERATING AT DESIGN CAP.	# UNITS PROVIDED	PUMP UNIT, RATING HP/TDH	FORCEMAINS, #-DIA.
I	4,500 gpm	1/4500 gpm	2	230hp/150 ft.	1-30"
II	9,000 gpm	2/4500 gpm	3	230hp/150 ft.	2-30"
III	12,600 gpm	2/6300 gpm	3	340hp/160 ft.	2-30"

** (Station capacity is rated as the sum of units with the largest out of service.)

**TABLE 3
PROJECT COST ESTIMATE
NORTH LINDEN STREET REGIONAL PUMP STATION**

**NORTH LINDEN STREET
REGIONAL PUMP STATION**

GE Valley pump station cost updated to 2003		\$2,005,000
Engineering/Contingencies	20%	\$401,000
Total Project Estimate		\$2,406,000

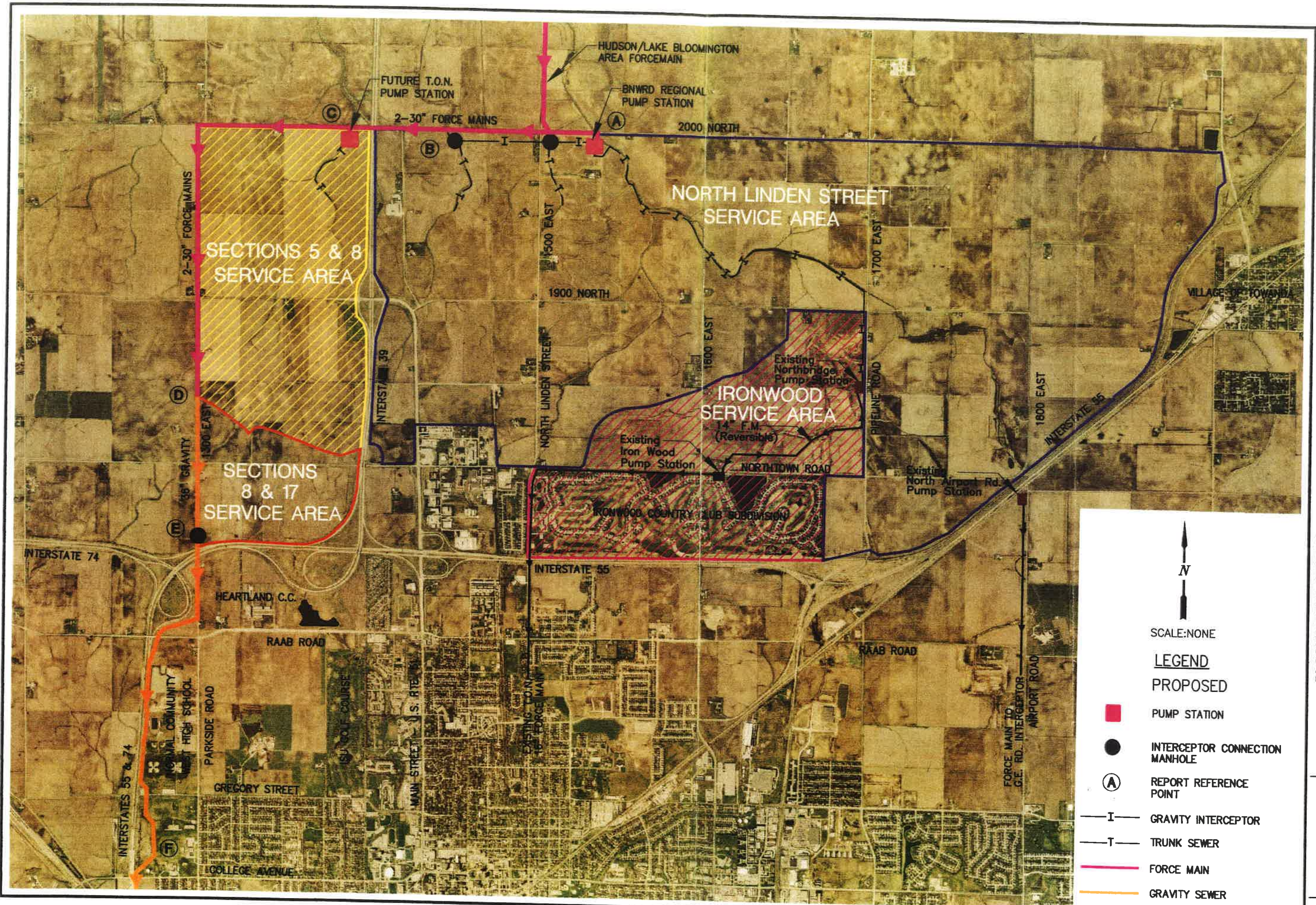
**FORCEMAIN
ITEM**

	QUANTITY UNIT	UNIT PRICE	ITEM TOTAL
2-30" Forcemains	42,750 LF	\$125	\$5,343,750
30" Fittings	20 EA	\$6,000	\$120,000
1-39 bore/encase 30" pipe	600 EA.	\$900	\$540,000
Air release MHs	8 EA.	\$15,000	\$120,000
Pavement restoration	150 LF	\$100	\$15,000
Site restoration	21,000 LF	\$2	\$42,000
Total Construction			\$6,180,750
Engineering/Contingencies	20%		\$1,236,150
Total Project Estimate			\$7,416,900

**INTERCEPTOR SEWER
ITEM**

	QUANTITY UNIT	UNIT PRICE	ITEM TOTAL
36" Sewer pipe	31,750 LF	\$180	\$5,715,000
Manholes	100 EA	\$6,000	\$600,000
Bore/encase 36" pipe	1,350 LF	\$900	\$1,215,000
Creek crossing dewatering	LS		\$20,000
Pavement restoration	150 LF	\$50	\$7,500
Seeding/restoration/erosion	22,750 LF	\$5	\$113,750
Total Construction			\$7,671,250
Engineering/Contingencies	20%		\$1,534,250
Total Project Estimate			\$9,205,500

Total Project Estimate All Components **\$19,028,400**



N

SCALE: NONE

LEGEND

PROPOSED

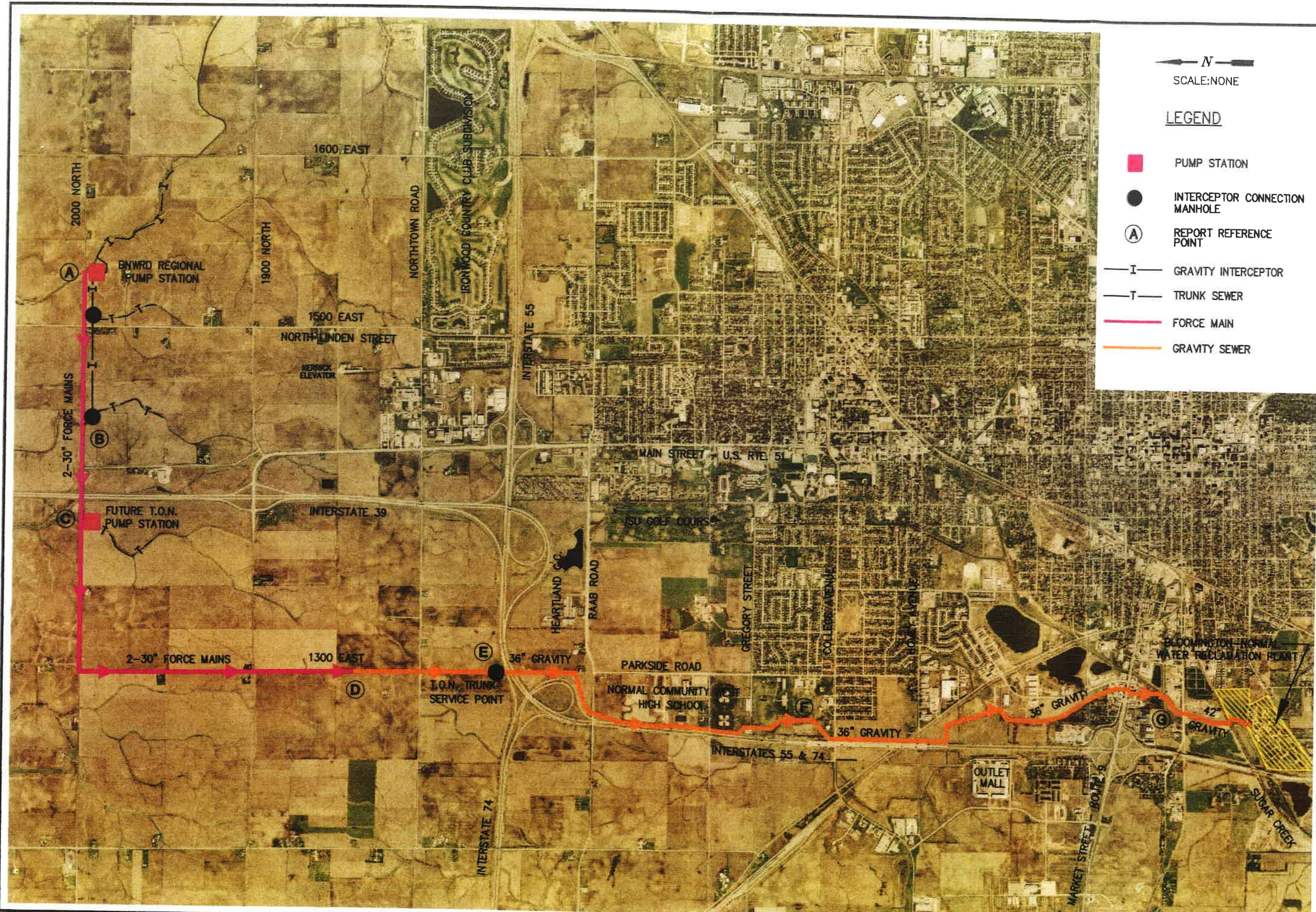
- PUMP STATION
- INTERCEPTOR CONNECTION MANHOLE
- A REPORT REFERENCE POINT
- I GRAYITY INTERCEPTOR
- T TRUNK SEWER
- FORCE MAIN
- GRAVITY SEWER

BLOOMINGTON-NORMAL WATER RECLAMATION DISTRICT
BLOOMINGTON-NORMAL, ILLINOIS

SERVICE AREAS

Project No: 102777
Book No: RLW
Drawn by: GAF
Approved: 10/9/03
Date:

FIGURE 1



N
SCALE: NONE

LEGEND

- PUMP STATION
- INTERCEPTOR CONNECTION MANHOLE
- A REPORT REFERENCE POINT
- GRAVITY INTERCEPTOR
- TRUNK SEWER
- FORCE MAIN
- GRAVITY SEWER

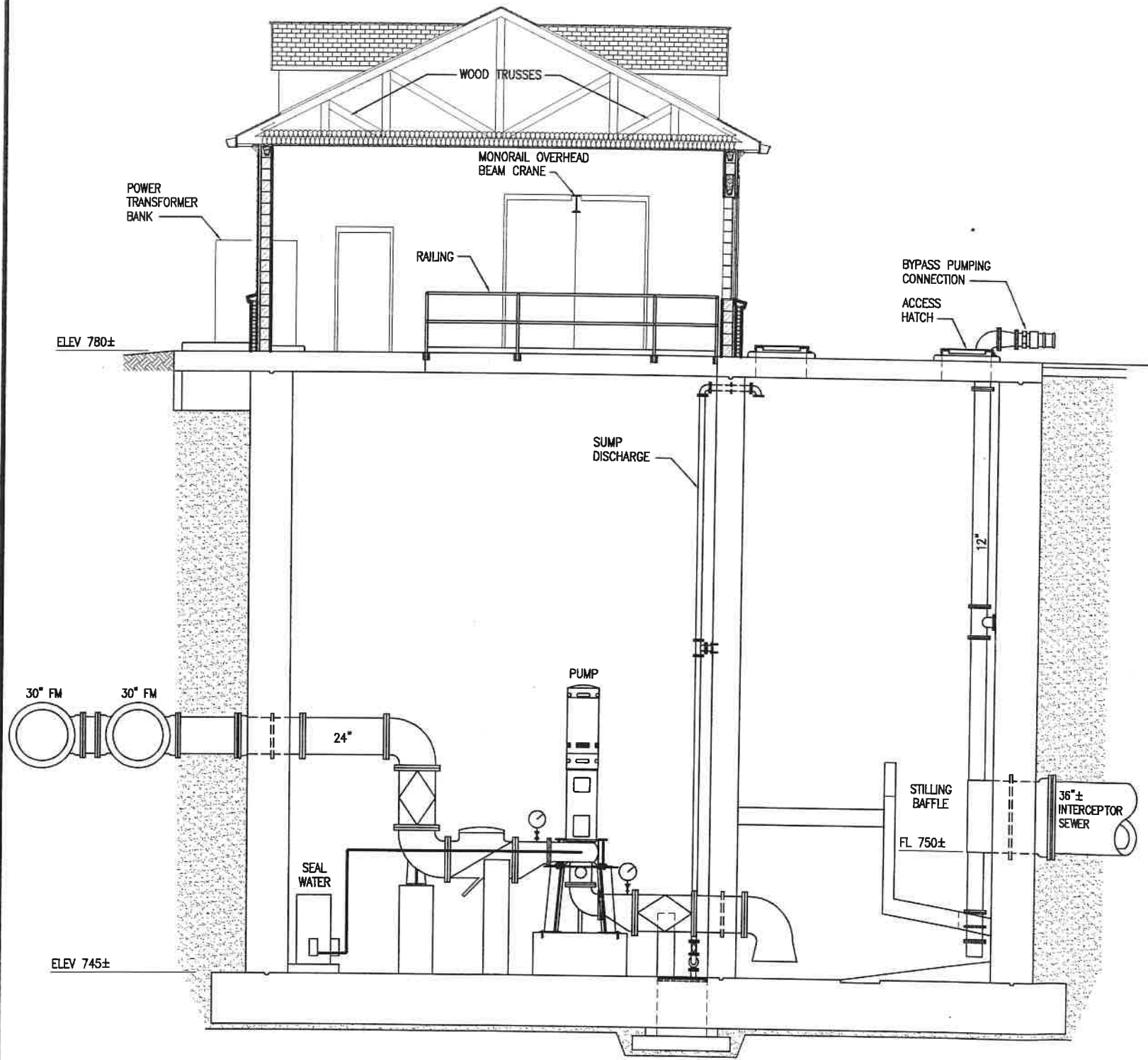
Farnsworth
GROUP
2709 McGraw Drive
BLOOMINGTON, ILLINOIS 61704
(309) 663-8435 / (309) 663-1571 Fax

BLOOMINGTON-NORMAL WATER RECLAMATION DISTRICT
BLOOMINGTON-NORMAL, ILLINOIS
FACILITIES OVERVIEW

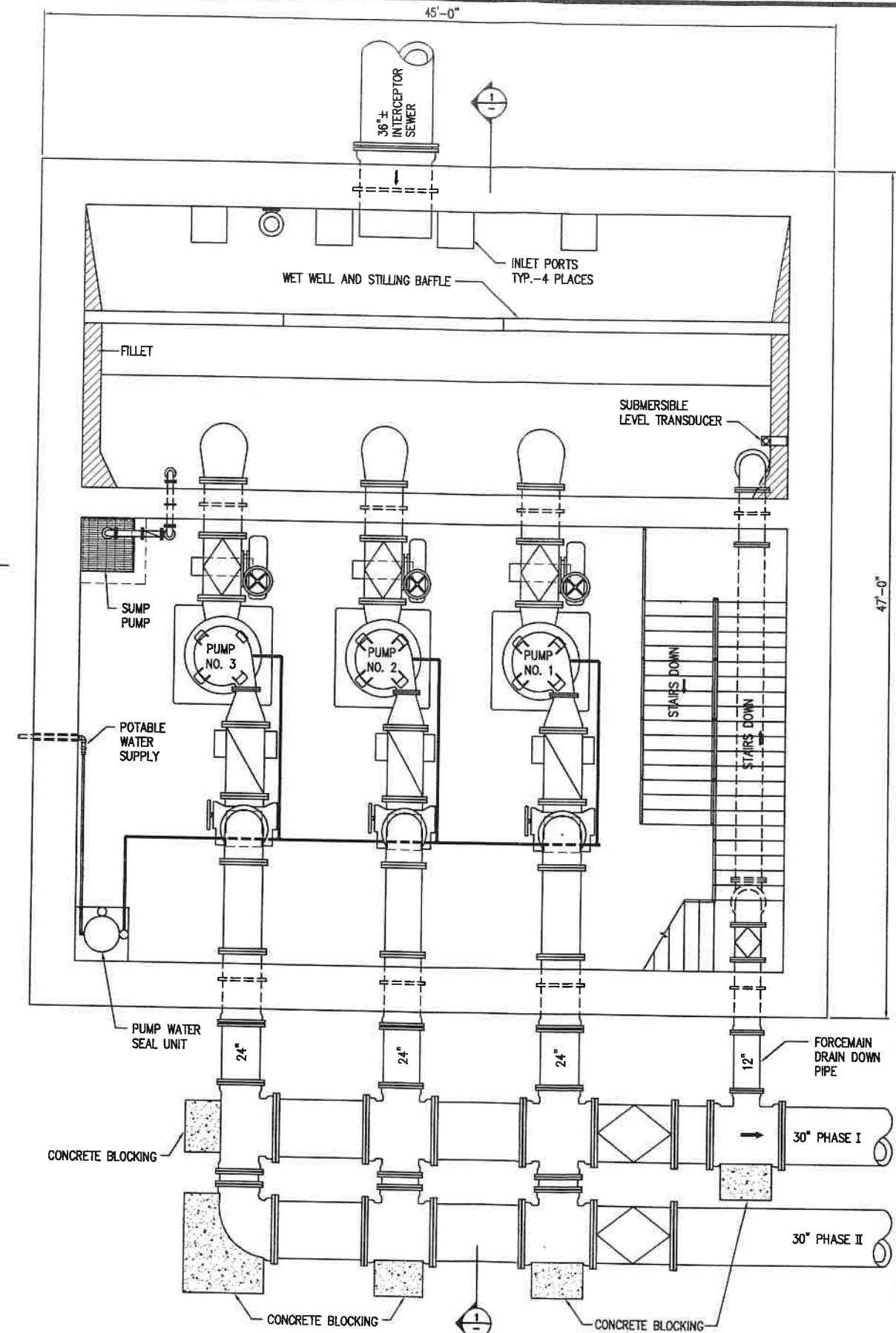
Project No: 10277
Book No: RLW
Drawn by: GAF
Approved: 10/9/03
Date:

FIGURE 2

dbruce | P:\bnwr\2002\102777.1-bnwr\ north side study\dwg\PE1-102777.1-PUMP STATION PLAN.DWG | DATE: 10/09/2003 | Time: 16:45 |



1 Pump Station Section (Typical)
Scale: No Scale



Pump Station Lower Level Plan (Typical)
Scale: No Scale

NOTES:
- DIMENSIONS AND PIPING SIZES ARE NOT SHOWN.
- CONCEPT PLAN ONLY.