SMITHGROUP

September 16, 2025

Eric Otto
Illinois Department of Natural Resources
Illinois Coastal Management Program
160 N LaSalle, Ste 700
Chicago, Illinois, 60601

Re **Park Avenue Boat Launch – Maintenance Dredging Project – Federal Consistency Determination**

Dear Mr. Otto:

We are working with the Park District of Highland Park on the above project. According to the Corps letter dated November 15, 2024, we are required to submit a Federal Consistency Determination. The following is intended to serve as the application for this determination.

1. The proposed project involves yearly dredging of sand material at the entrance of the boat launch facility to maintain safe navigation depths for users of the facility.

2. The contact person is Mr. Brian Romes, Executive Director of the Park District of Highland Park. His contact information is as follows:

   636 Ridge Rd
   Highland Park, IL 60035

3. The proposed activity complies with the Illinois approved coastal management program and will be conducted in a manner consistent with such policies.

If you have any questions or comments, please feel free to contact me at

Sincerely,

Lindsey Mathus, PE
SmithGroup

cc Casey Lawler, Planning and Projects Supervisor, Park District of Highland Park
cc Jeff Smith, Director of Planning, Projects, IT, Park District of Highland Park

636 Ridge Road
Highland Park, IL 60035
847.831.3810 | pdhp.org

October 16, 2024

Soren Hall
Section 408 Coordinator & Regulatory Project Manager
US Army Corps of Engineers, Chicago District
Regulatory Branch – East Section
231 South LaSalle Street, Suite 1500
Chicago, Illinois 60604

James Kessen, PE
llinois Department of Natural Resources
Office of Water Resources
160 North LaSalle Street, Suite S-730
Chicago, Illinois 60601

Mr. Darren Gove
Illinois Environmental Protection Agency
Bureau of Water
1021 North Grand Avenue East
Springfield, Illinois, 62794

Subject: Park Avenue Boat Launch – Maintenance Dredging Project
Joint Application
8 Park Avenue
Highland Park, Illinois 60035

Dear Regulatory Representatives:

On behalf of the Park District of Highland Park, please find the attached completed joint application and supplemental information for the referenced project. Included with the application are proposed plans, photo exhibits, and additional information for the yearly maintenance dredging of the Park Avenue Boat Ramp by the Park District of Highland Park.
The Park District of Highland Park currently has a 10-year maintenance dredging permit, which will expire on December 31, 2025. The intention is to re-apply for a similar permit, as the need to annually dredge still exists. The fluctuation of the Lake Michigan water levels and storm activity results in the deposition of sand at the entrance of the ramp. Similarly with the existing permit, the dredged material would be placed in-water near the adjacent beach area to the southwest.

636 Ridge Road
Highland Park, IL 60035
847.831.3810 | pdhp.org

If no action were taken it would be difficult for personal watercraft users to utilize the boat ramp.

The Park District of Highland respectfully requests a timely review of this application. Thank you in advance for your consideration. If you have any questions or comments, please feel free to contact me at

Brian Romes
Executive Director, Park District of Highland Park

JOINT APPLICATION FOR INDIVIDUAL PERMIT

For

Park Avenue Boat Launch – Maintenance Dredging Project

Park District of Highland Park

8 Park Avenue

Highland Park, IL 60035

Prepared for

PARK DISTRICT of HIGHLAND PARK

Park District of Highland Park

636 Ridge Road
Highland Park, IL 60035

Prepared by

SMITHGROUP

35 East Wacker Dr, #900
Chicago, IL 60601

TABLE OF CONTENTS

TAB 1

Joint Application Form

JOINT APPLICATION FORM FOR ILLINOIS

ITEMS 1 AND 2 FOR AGENCY USE

1. Application Number	2. Date Received

3. and 4. (SEE SPECIAL INSTRUCTIONS) NAME, MAILING ADDRESS AND TELEPHONE NUMBERS

3a. Applicant's Name:	3b. Co-Applicant/Property Owner Name (if needed or if different from applicant):	4. Authorized Agent (an agent is not required):
Brian Romes	Ghida S. Neukirch	Lindsey Mathus
Company Name (if any) : Park District of Highland Park	Company Name (if any): City of Highland Park	Company Name (if any): SmithGroup
Address: 636 Ridge Rd Highland Park, IL 60035	Address: 1707 St. Johns Avenue Highland Park, IL 60035	Address: 35 E. Wacker Dr., #900 Chicago, IL 60601
Email Address:	Email Address:	Email Address:
Applicant's Phone Nos. w/area code	Applicant's Phone Nos. w/area code	Agent's Phone Nos. w/area code
Business:	Business:	Business:
Residence:	Residence:	Residence:
Cell:	Cell:	Cell:
Fax:	Fax:	Fax:

STATEMENT OF AUTHORIZATION

I hereby authorize, SmithGroup to act in my behalf as my agent in the processing of this application and to furnish, upon request ~~supplemental~~ information in support of this permit application.

Applicant's Signature — Date: October 16, 2024

5. ADJOINING PROPERTY OWNERS (Upstream and Downstream of the water body and within Visual Reach of Project)

Name	Mailing Address	Phone No. w/area code
a. Anne Kaplan	60 Central Avenue, Highland Park, IL 60035	
b. Anne Kaplan	1997 Lake Avenue, Highland Park, IL 60035	
c.		
d.		

6. PROJECT TITLE:
Park Avenue Boat Launch - Maintenance Dredging Project

7. PROJECT LOCATION:
8 Park Avenue, Highland Park, IL 60035

LATITUDE: 42.19029 °N
LONGITUDE: -87.78722 °W

UTMs
Northing:
Easting:

STREET, ROAD, OR OTHER DESCRIPTIVE LOCATION	LEGAL DESCRIPT	QUARTER	SECTION	TOWNSHIP NO.	RANGE
0.75 miles northeast of intersection of Central Ave & St. Johns Ave		SE SW	23 24	43N	12E

☒ IN OR ☐ NEAR CITY OF TOWN (check appropriate box)
Municipality Name: Highland Park

WATERWAY: Lake Michigan

RIVER MILE (if applicable):

COUNTY	STATE	ZIP CODE
Lake	IL	60035

Revised 2010

☐ Corps of Engineers ☐ IL Dep't of Natural Resources ☐ IL Environmental Protection Agency ☐ Applicant's Copy

8. PROJECT DESCRIPTION (Include all features):

The project involves annually dredging approximately 2,400 CY of material from the entrance of the boat launch facility and placing material in Lake Michigan as shown on the plans.

9. PURPOSE AND NEED OF PROJECT:

The purpose of the project is to allow for safe use and navigation of the users of the boat launch facility.

COMPLETE THE FOLLOWING FOUR BLOCKS IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

10. REASON(S) FOR DISCHARGE:

To maintain boat launch depths and keep the sand material in the littoral system

11. TYPE(S) OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS FOR WATERWAYS:

TYPE: sand, i.e. 90% retaining on #200 sieve

AMOUNT IN CUBIC YARDS:

sand - 2,400 CY annually

12. SURFACE AREA IN ACRES OF WETLANDS OR OTHER WATERS FILLED (See Instructions)

0.3 acres - approximately

13. DESCRIPTION OF AVOIDANCE, MINIMIZATION AND COMPENSATION (See instructions)

Due to the nature of the project and the minimal environmental impacts, compensatory mitigation is not planned.

14. Date activity is proposed to commence: 5/1/2026

Date activity is expected to be completed: 5/15/2036

15. Is any portion of the activity for which authorization is sought now complete? Yes [X] No [ ]

NOTE: If answer is "YES" give reasons in the Project Description and Remarks section. Indicate the existing work on drawings.

Month and Year the activity was completed: Yes, under current annual dredging permit

16. List all approvals or certification and denials received from other Federal, interstate, state, or local agencies for structures, construction, discharges or other activities described in this application.

Issuing Agency	Type of Approval	Identification No.	Date of Application	Date of Approval	Date of Denial

17. CONSENT TO ENTER PROPERTY LISTED IN PART 7 ABOVE IS HEREBY GRANTED. Yes No

18. APPLICATION VERIFICATION (SEE SPECIAL INSTRUCTIONS)

Application is hereby made for the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.

Signature of Applicant or Authorized Agent	Date
	10/25/2024
Signature of Applicant or Authorized Agent	Date
Signature of Applicant or Authorized Agent	Date

☐ Corps of Engineers Revised 2010 ☐ IL Dep't of Natural Resources ☐ IL Environmental Protection Agency ☐ Applicant's Copy

SEE INSTRUCTIONS FOR ADDRESS

LOCATION MAP

SEE ATTACHED PLAN SET

Revised 2010

☐ Corps of Engineers ☐ IL Dep't of Natural Resources ☐ IL Environmental Protection Agency ☐ Applicant's Copy

PLAN VIEW

SEE ATTACHED PLAN SET

FOR AGENCY USE ONLY

Revised 2010

☐ Corps of Engineers ☐ IL Dep't of Natural Resources ☐ IL Environmental Protection Agency ☐ Applicant's Copy

TAB 2

Introduction

Project Description

Existing Conditions

Qualitative Habitat Assessment

Mitigation

TAB 2

Project Description

The Park District of Highland Park (PDHP) with the partnership of the City of Highland Park is requesting a continuation of the yearly maintenance dredging at the Park Avenue Boat Launch Facility in Lake County, Illinois. The proposed activity intended to be reauthorized under similar permits with the USACE, IDNR, and Illinois EPA Water Quality Certification. The project limits are shown on the attached permit set.

The proposed work will consist of the yearly dredging of sand material (2,400 CY annually) at the entrance of the boat launch facility and placed in an open water location as shown on the plans.

The purpose of the project is to restore adequate water depths for safe navigation at the boat launch while keeping the sand material into the littoral system.

The need for the project is a result of the fluctuation in Lake Michigan water levels combined with storm activity resulting in the deposition of sand at the ramp entrance, which poses as a determinant to safe navigation.

The proposed work is shown in the permit plans included in Tab 3.

Attached please find the Joint Application form. The proposed work will be below the OHWM of Lake Michigan. Please note that the OHWM was established based on field identified physical indicators per USACE/IDNR guidance and surveyed in June of 2021.

Existing Conditions

Existing land use within and immediately adjacent to the project limits includes a public boat launch facility with an adjacent public beach area that is used by a local sailing facility. The boat launch is used by watercraft users to deploy their vessels. The replacement of the adjacent breakwater, boat ramp, and docks were authorized under permits LRC-2021-00800 and LM2022002 and construction was completed in the summer of 2023. The existing maintenance dredging permit numbers are IDNR permit # LM2015005 and ILEPA Permit # 2015-LM-59537.

Qualitative Habitat Assessment

Very little habitat is present in the proposed work areas due to the presence of historic shoreline stabilization and recreational land uses directly adjacent to the water's edge. The lake substrate appears comprised mainly of sand. There is not visible aquatic vegetation present within the proposed work area. Terrestrial vegetation is not present in the project area due to the presence of a beach area and the upland water plant parking lot.

The nearest tributary, the Waukegan River, is approximately 12 miles north of the project area. Millard Park with upland ravines and other aquatic resources is approximately 1 mile south of the project area.

There are no known reef/shoal or other habitat features within 1 mile of the project area.

The construction plans in Tab 3 show the shoreline and lakebed contours and grades as they appeared in summer of 2021. Recent soundings after the May 2024 dredging event are shown on the plans.

Mitigation

The proposed work will minimize impacts to Waters of the US to the maximum extent practicable. The work is anticipated to be conducted by mechanical means and will be conducted in a manner that limits the potential for environmental impacts, therefore, compensatory mitigation is not planned.

TAB 3

Permit Drawing Set

Park Avenue Boat Launch Maintenance Dredging Project

Highland Park, IL

OCTOBER 7, 2024
ISSUED FOR PERMIT

SmithGroup Project Number: 15403.000

Sheet List Table

Sheet Number	Sheet Title
G-001	COVER SHEET
CV100	EXISTING CONDITIONS PLAN
CS100	SITE PLAN
CS300	SITE SECTIONS

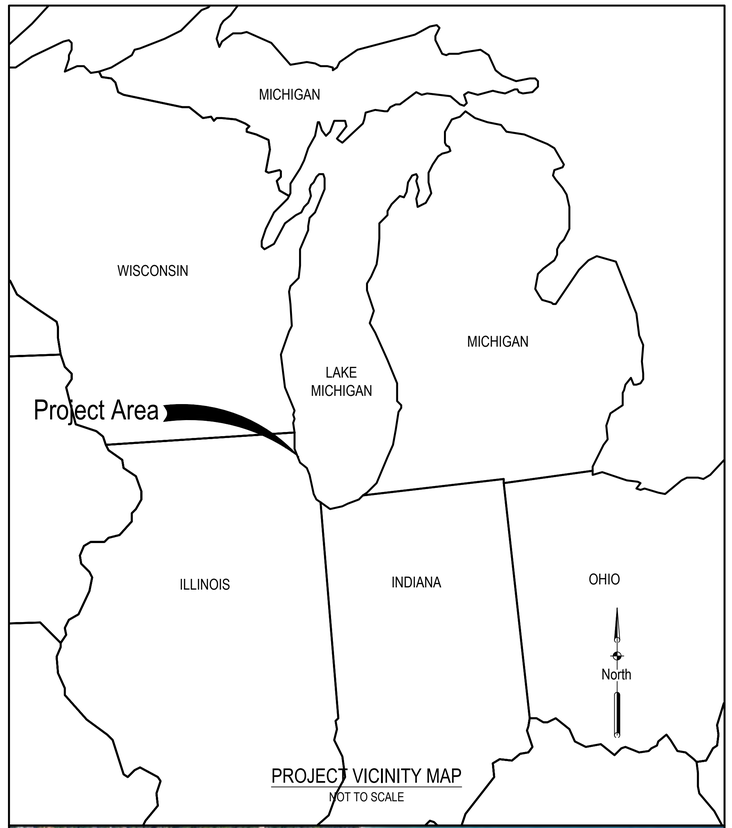
Prepared for:

Park District of Highland Park
636 Ridge Road
Highland Park, IL 60035

Prepared by:

SMITHGROUP

35 EAST WACKER
SUITE 900
CHICAGO, IL 60601
312.641.0770
www.smithgroup.com



PROJECT VICINITY MAP
NOT TO SCALE

PROJECT LOCATION MAP

SHEET NOTES

1. SURVEYED BY GSD PROFESSIONAL SERVICES INC. ON JUNE 23RD, 2021. VERTICAL DATUM IS IGLD85.
2. OHWM SURVEYED BASED OFF VISUAL OBSERVATION, APPROX. ELEVATION OF 582.0' IN 2021.
3. EOW SURVEYED BASED OFF VISUAL OBSERVATION, APPROX. ELEVATION OF 580.2' IN 2021.
4. RECENT SOUNDINGS FROM MAY 2024 SHOWN ARE RELATIVE TO AVG. MAY 2024 WATER ELEV. OF 579.5'.

LEGEND

- LIMITS OF WORK
- ORDINARY HIGH WATER MARK
- EDGE OF WATER
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- × 573.5 MAY 2024 SOUNDING (APPROX. LOCATION)

PARK AVENUE MAINTENANCE DREDGING

31 PARK AVENUE
HIGHLAND PARK, IL 60035

Owner:

PARK DISTRICT OF HIGHLAND PARK

SMITHGROUP

35 EAST WACKER
SUITE 900
CHICAGO, IL 60601
312.641.0770
www.smithgroup.com

ISSUED FOR	REV	DATE
ISSUED FOR PERMIT		10/07/2024

SEALS AND SIGNATURES

KEY PLAN

PROJECT NORTH

DRAWING TITLE
EXISTING CONDITIONS

SCALE: 1" = 20'

SCALE 15403.000

PROJECT NUMBER

DRAWING NUMBER CV100

SHEET NOTES

1. SURVEYED BY GSD PROFESSIONAL SERVICES INC. ON JUNE 23RD, 2021. VERTICAL DATUM IS IGLD85.
2. OHWM SURVEYED BASED OFF VISUAL OBSERVATION, APPROX. ELEVATION OF 582.0' in 2021.
3. EOW SURVEYED BASED OFF VISUAL OBSERVATION, APPROX. ELEVATION OF 580.2' in 2021.
4. RECENT SOUNDINGS FROM MAY 2024 ARE SHOWN BASED UPON MAY 2024 WATER ELEV. OF 579.5'.

LEGEND

- LIMITS OF WORK
- ORDINARY HIGH WATER MARK
- EDGE OF WATER
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- MAINTENANCE DREDGING AREA
- DREDGING DISPOSAL AREA
- × 573.5 MAY 2024 SOUNDING (APPROX. LOCATION)

PARK AVENUE MAINTENANCE DREDGING

31 PARK AVENUE
HIGHLAND PARK, IL 60035

Owner:

PARK DISTRICT OF HIGHLAND PARK

SMITHGROUP

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www.smithgroup.com

ISSUED FOR	REV	DATE
ISSUED FOR PERMIT		*10/07/2024*

SEALS AND SIGNATURES

KEY PLAN

PROJECT NORTH

DRAWING TITLE

SITE PLAN

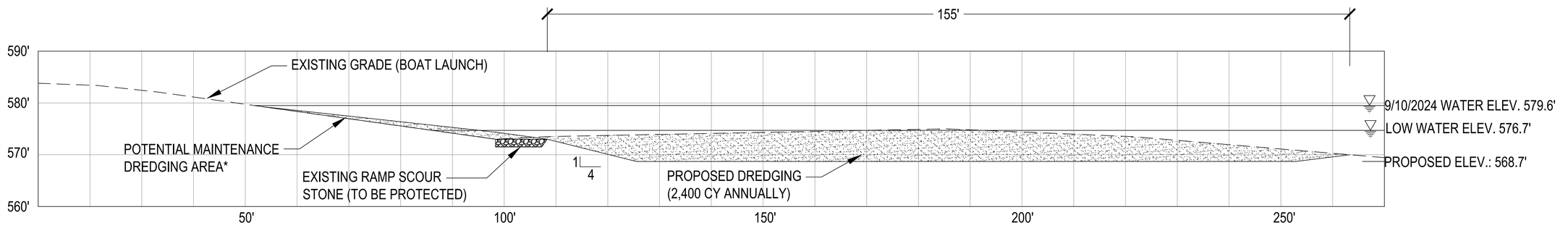
0' 10' 20' 40'
SCALE: 1" = 30'

SCALE 15403.000

PROJECT NUMBER

CS100

DRAWING NUMBER



*NOTE: THIS AREA DOES NOT NEED TO BE DREDGED TODAY, HOWEVER, THERE IS A POTENTIAL THAT ACCUMULATED SAND WILL NEED TO BE REMOVED AS PART OF THE MAINTENANCE DREDGING ACTIVITIES.

1 MAINTENANCE DREDGING SECTION

SCALE: 1" = 10'

PARK AVENUE MAINTENANCE DREDGING

31 PARK AVENUE
HIGHLAND PARK, IL 60035

Owner:

PARK DISTRICT OF HIGHLAND PARK

SMITHGROUP

35 EAST WACKER
SUITE 900
CHICAGO, IL 60601
312.641.0770
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ISSUED FOR	REV	DATE
ISSUED FOR PERMIT		*10/07/2024*

SEALS AND SIGNATURES

KEY PLAN

DRAWING TITLE

SECTIONS

SCALE

15403.000

PROJECT NUMBER

CS300

DRAWING NUMBER

TAB 4

Site Photographs

Photo 1: Boat launch area in July 2023 facing southwest

Photo 2: Boat launch facility in July 2023 facing southeast

Photo 3: Adjacent beach area facing southwest

TAB 5

EcoCat Letter

EcoCAT
Ecological Compliance Assessment Tool

ILLINOIS DEPARTMENT OF NATURAL RESOURCES

Applicant:	Park District of Highland Park	*IDNR Project Number:*	2504603
Contact:	Brian Romes	*Date:*	10/07/2024
Address:	636 Ridge Rd Highland PArk, IL 60035	*Alternate Number:*	LM2015005

Project: Park Avenue Boat Launch - Maintenance Dredging Project
Address: 8 Park Avenue , Highland Park

Description: The project involves annually dredging approximately 2,400 CY of material from the entrance of the boat launch facility and placing material in Lake Michigan as shown on the plans.

Natural Resource Review Results

Consultation for Endangered Species Protection and Natural Areas Preservation (Part 1075)

The Illinois Natural Heritage Database shows the following protected resources may be in the vicinity of the project location:

Northern Cranesbill *(Geranium bicknellii)*

An IDNR staff member will evaluate this information and contact you to request additional information or to terminate consultation if adverse effects are unlikely.

Location

The applicant is responsible for the accuracy of the location submitted for the project.

County: Lake

Township, Range, Section:
43N, 12E, 24

IL Department of Natural Resources Contact
Isabella Newingham
217-785-5500
Division of Ecosystems & Environment

Government Jurisdiction
Park District of Highland Park
Brian Romes
636 Ridge Rd
Highland Park, Illinois 60035

Disclaimer

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

Terms of Use

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.

2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.

3. IDNR reserves the right to enhance, modify, alter, or suspend the website at any time without notice, or to terminate or restrict access.

Security

EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law.

Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

Privacy

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.

TAB 6

2024 Sediment Sampling Results

ENVIRONMENTAL SERVICES FIRM, INC.
4035 PARK PLACE CIRCLE
ELLENWOOD, GA. 30294

March 27, 2024

Mike Evans
Park District of Highland Park
Landscape Architect
636 Ridge Road
Highland Park, Illinois 60035

Dear Mr. Evans;

On March 14, 2024, Environmental Services Firm, Inc., collected sand and water samples from the Park Avenue Beach, (See attached map for collection locations).

Three (3) samples were collected for Particle Size Separation requiring < than 20% of material passing through a # 230 US sieve. All samples were in compliance, (see Malt Handling test results dated March 21, 2024).

Three (3) samples were analyzed for Asbestos by Polarized Light Microscopy and Transmission Electron Microscopy methods.

Eurofins Built Environmental Testing **Park Avenue Beach** 03-14-24-01-HP shows receipt of samples on 3/19/24. All samples were analyzed for Asbestos by Polarized Light Microscopy and found to have < than the required 1% Limit of Detection (see Eurofins ID: PLM-01-HP, PLM-02-HP & PLM-03-HP).

Eurofins Built Environmental Testing Project **Park Avenue Beach** 03-14-24-01-HP shows receipt of samples on 3/19/24. All samples were analyzed for Asbestos by Transmission Electron Microscopy and found free of Asbestos (non Detected), (see Eurofins ID: TEM 01 HP, TEM 02 HP & TEM 03 HP).

First Environmental Laboratories Chain of Custody and Case Narrative report lists three (3) Sediment and Water samples collected from three (3) locations and one (1) sample of background Water for Supernatant Testing.

Please take notice of the large amount of results above the Reporting Limits

Supernatant Results Above Reporting Limits

HP-A	**0 Hour Settling**	Zinc	0.031mg/L,	RL 0.010 mg/L
		Ammonia	1.25 mg/L,	RL 0.10 mg/L
		TSS	202 mg/L	RL 5 mg/L

		TVS	88 mg/L	RL 10	mg/L
		TDS	183 mg/L	RL 10	mg/L
		Phosphorus	0.12 mg/L	RL 0.2	mg/L
		Sulfate	23 mg/L	RL 5	mg/L
		Chloride	26 mg/L	RL 2	mg/L
HP-A	**4 Hour Settling**	Zinc	0.013 mg/L	RL 0.010	mg/L
		Ammonia	1.02 mg/L	RL 0.10	mg/L
		TSS	23 mg/L	RL 5	mg/L
		TVS	66 mg/L	RL 10	mg/L
		TDS	235 mg/L	RL 10	mg/L
		Phosphorus	0.04 mg/L	RL 0.02	mg/L
		Sulfate	23 mg/L	RL 5	mg/L
		Chloride	26 mg/L	RL 2	mg/L
HP-B	**0 Hour Settling**	Zinc	0.019 mg/L	RL 0.010	mg/L
		Ammonia	1.03 mg/L	RL 0.10	mg/L
		TSS	139 mg/L	RL 5	mg/L
		TVS	62 mg/L	RL 10	mg/L
		TDS	207 mg/L	RL 10	mg/L
		Phosphorus	0.09 mg/L	RL 0.02	mg/L
		Sulfate	27 mg/L	RL 5	mg/L
		Chloride	26 mg/L	RL 2	mg/L
HP-B	**4 Hour Settling**	Ammonia	1.58 mg/L	RL 0.10	mg/L
		TSS	47 mg/L	RL 5	mg/L
		TVS	52 mg/L	RL 10	mg/L
		TDS	231 mg/L	RL 10	mg/L
		Phosphorus	0.08 mg/L	RL 0.02	mg/L
		Sulfite	30 mg/L	RL 5	mg/L
		Chloride	26 mg/L	RL 2	mg/L
HP-C	**0 Hour Settling**	Zinc	0.026 mg/L	RL 0.010	mg/L
		Ammonia	1.26 mg/L	RL 0.10	mg/L
		TSS	229 mg/L	RL 5	mg/L
		TVS	62 mg/L	RL 10	mg/L
		TDS	158 mg/L	RL 10	mg/L
		Phosphorus	0.10 mg/L	RL 0.02	mg/L
		Sulfate	22 mg/L	RL 5	mg/L
		Chloride	26 mg/L	RL 2	mg/L
HP-C	**4 Hour Settling**	Ammonia	1.37 mg/L	RL 0.10	mg/L
		TSS	141 mg/L	RL 5	mg/L
		TVS	62 mg/L	RL 10	mg/L
		TDS	213 mg/L	RL 10	mg/L
		Phosphorus	0.05 mg/L	RL 0.02	mg/L
		Sulfite	23 mg/L	RL 5	mg/L
		Chloride	26 mg/L	RL 2	mg/L

HP-Background Water	Chloride	25	mg/L	RL 2	mg/L
	Phosphorus	0.05	mg/L	RL 0.02	mg/L
	Sulfate	26	mg/L	RL 5	mg/L
	TDS	205	mg/L	RL 10	mg/L
	TSS	276	mg/L	RL 5	mg/L
	TVS	48	mg/L	RL 10	mg/L
	Lead	0.007	mg/L	RL 0.005	mg/L
	Zinc	0.027	mg/L	RL 0.01	mg/L

Test results must be submitted AS Soon AS Possible to Illinois Environmental Protection Agency for determination of further monitoring.

Thank you for your business. If you have question or I can be of further service, please contact me at (773) 290-4086.

Respectfully,

Ernest S. Foster
Environmental Services Firm, Inc.


1
2
3

Malthandling: PO Box 408079, Chicago, IL 60640, Office: 773-888-7718

March 26, 2024

Environmental Services Firm
Sample Sieve Testing
Screens # 60, #100, #230
Agitation duration: Three (3) minutes
Six (9) samples (3-Winnetka,3-Evanston, 3- Highland Park)

Highland Park # 1
(Sample Size 7.2 oz)
Distribution
60 Screen = 1.1 oz (11.04%) held in screen (88.96% passed through)
#100 Screen = 1.35 oz (48.33%) held in screen (51.67% passed through)
#230 Screen = 2.3oz (98.4%) held in screen (1.6% passed through)

Highland Park # 2
(Sample Size 5.17 oz)
Distribution
60 Screen = 2.48 oz (9.89%) held in screen (90.11 % passed through)
#100 Screen = 1.27oz (51.3 % held in screen (48.7 % passed through)
#230 Screen = 1.42 oz (97.4%) in screen (2.6 % passed through)

Highland Park # 3
(Sample Size 3.9 oz)
Distribution
60 Screen = 1.6 oz (14%) held in screen (86% passed through)
100 Screen = 1 oz (63%) held in screen (37% passed through)
230 Screen = 1.3 oz (99.05%) held in screen (0.5% passed through)

eurofins | CEI

ASBESTOS CHAIN OF CUSTODY

2752 Pleasant Rd. Suite 100A Fort Mill, SC 29708
Tel: 803-526-5146; Fax: 919-481-1442

ECEI Lab Code:	SA240863 (3)
ECEI Lab I.D. Range:	

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Ernie Foster
Company: Environmental Services Firm, Inc.	Email / Tel: efoster46@gmail.com
Address: 4035 Park Place Circle	Project Name: Park Avenue Boat Dock
Ellenwood,Ga. 30294	Project ID#: 03-14-24-01 HP
Billing Email: efoster46@gmail.com	PO #:
Tel: (773) 290-4086	State of sample origin Illinois

ECEI standard terms are Net 30 days

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600/R-93/116	☐	☐	☐	☐	☑	☐
PLM POINT COUNT (400)	EPA 600/R-93/116	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600/R-93/116	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600/R-93/116		☐	☐	☐	☐	☐
PLM BULK	CARB 435				☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312					☐	☐
TEM AIR	ASTM 6281-15					☐	☐
TEM BULK	CHATFIELD / EPA 600/R-93/116 Sec. 2.5.5.1		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-19	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16				☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD				☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

*Blanks should be taken from the same sample lot as field samples.

REMARKS / SPECIAL INSTRUCTIONS:

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
E. Foster	3/18/24 10:00AM	RB	3/19 9:30 AM

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Version: ACOC.02.24.1/2.LM

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Environmental Services Firm, Inc.	Job Contact: Ernie Foster
Project Name: Park Avenue Boat Dock	
Project ID #: 03-14-24-01 HP	Tel: (773) 290-4086

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
PLM 01 HP	01	1X1	PLM ✓	TEM
PLM 02 HP	02	1X1	PLM ✓	TEM
PLM 03 HP	03	1X1	PLM ✓	TEM
			PLM	TEM
			PLM	TEM
			PLM	TEM
			PLM	TEM
			PLM	TEM
			PLM	TEM
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			PLM	TEM

Version: ACOC.02.24.2/2.LM

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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Environmental Services

CLIENT PROJECT: Park Avenue Boat Dock, 03-14-24-01 HP

LAB CODE: SA240863

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 03/22/24

TOTAL SAMPLES ANALYZED: 3

SAMPLES >1% ASBESTOS:

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Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Park Avenue Boat Dock, 03-14-24-01 HP **LAB CODE: SA240863**

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
PLM-01-HP		SA240863.01	Tan	Cementitious Material	None Detected
PLM-02-HP		SA240863.02	Tan	Cementitious Material	None Detected
PLM-03-HP		SA240863.03	Tan	Cementitious Material	None Detected

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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Environmental Services
4035 Park Place Circle
Ellenwood, GA 30294

Lab Code: SA240863
Date Received: 03-19-24
Date Analyzed: 03-22-24
Date Reported: 03-22-24

Project: Park Avenue Boat Dock, 03-14-24-01 HP

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
PLM-01-HP SA240863.01	Cementitious Material	Homogeneous Tan Non-fibrous Bound		90% 10%	Silicates Binder	None Detected
PLM-02-HP SA240863.02	Cementitious Material	Homogeneous Tan Non-fibrous Bound		90% 10%	Silicates Binder	None Detected
PLM-03-HP SA240863.03	Cementitious Material	Homogeneous Tan Non-fibrous Bound		90% 10%	Silicates Binder	None Detected

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LEGEND:
Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

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Information provided by customer includes customer sample ID and sample description.

ANALYST: Olivia Gardner
Olivia Gardner

APPROVED BY:
Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING NVLAP LAB CODE 600223-0

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ASBESTOS CHAIN OF CUSTODY

2752 Pleasant Rd. Suite 100A Fort Mill, SC 29708
Tel: 803-526-5146; Fax: 919-481-1442

ECEI Lab Code:	ST240281
ECEI Lab I.D. Range:	

COMPANY INFORMATION	PROJECT INFORMATION
ECEI CLIENT #:	Job Contact: Ernie Foster
Company: Environmental Services Firm, Inc.	Email / Tel: efoster46@gmail.com
Address: 4035 Park Place Circle	Project Name: Park Avenue Boat Dock
Ellenwood,Ga. 30294	Project ID#: 03-14-24-01 HP
Billing Email: efoster46@gmail.com	PO #:
Tel: (773) 290-4086	State of sample origin Illinois

ECEI standard terms are Net 30 days

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600/R-93/116	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (400)	EPA 600/R-93/116	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600/R-93/116	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600/R-93/116		☐	☐	☐	☐	☐
PLM BULK	CARB 435				☐	☐	☐
PCM AIR*	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR (PCME)	ISO 10312					☐	☐
TEM AIR	ASTM 6281-15					☐	☐
TEM BULK	CHATFIELD / EPA 600/R-93/116 Sec. 2.5.5.1		☐	☐	☐	☑	☐
TEM DUST WIPE	ASTM D6480-19	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-16				☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD				☐	☐	☐
TEM QUALITATIVE	IN-HOUSE METHOD		☐	☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

*Blanks should be taken from the same sample lot as field samples.

REMARKS / SPECIAL INSTRUCTIONS:

☐ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
E. Foster	3/18/24 10:00 AM	PB	3/19 9:30 AM

By submitting samples, you are agreeing to ECEI's Terms and Conditions.
Samples will be disposed of 30 days after analysis

Version: ACOC.02.24.1/2.LM

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SAMPLING FORM

COMPANY CONTACT INFORMATION	
Company: Environmental Services Firm, Inc.	Job Contact: Ernie Foster
Project Name: Park Avenue Boat Dock	
Project ID #: 03-14-24-01	Tel: (773) 290-4086

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST			
TEM 01 HP	01	1X1	PLM	☐	TEM	☑
TEM 02 HP	02	1X1	PLM	☐	TEM	☑
TEM 03 HP	03	1X1	PLM	☐	TEM	☑
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
			PLM	☐	TEM	☐
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			PLM	☐	TEM	☐
			PLM	☐	TEM	☐

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ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Environmental Services

CLIENT PROJECT: Park Avenue Boat Dock, 03-14-24-01 HP

LAB CODE: ST240281

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116 Sec. 2.5.5.1

REPORT DATE: 03/22/24

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ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Environmental Services
4035 Park Place Circle
Ellenwood, GA 30294

Lab Code: ST240281
Date Received: 03-19-24
Date Analyzed: 03-22-24
Date Reported: 03-22-24

Project: Park Avenue Boat Dock, 03-14-24-01 HP

TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
TEM 01 HP ST10714	01	0.3913	16.1	0	83.9	None Detected
TEM 02 HP ST10715	02	0.4789	7.5	7.6	84.9	None Detected
TEM 03 HP ST10716	03	0.6877	.2	47.6	52.2	None Detected

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LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116 Sec. 2.5.5.1

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

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Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.
ECEI recommends between 0.20 and 0.50 grams of sample material for TEM bulk analysis.
Any weight below 0.10 grams is considered below protocol guidelines.
***Indicates sample weight below 0.05 grams and is considered insufficient for quantitative analysis.*

ANALYST: Sam Parker

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

CHAIN OF CUSTODY RECORD

First Environmental Laboratories, Inc.

1600 Shore Road, Suite D
Naperville, IL 60563
Phone: (630)778-1200 * Fax (630)778-1233
E-Mail: firstinfo@firstenv.com
IEPA Accreditation #100292
www.firstenv.com

Company Name: ENVIRONMENTAL SERVICES FIRM			
Street Address: 4035 Park Place Circle			
City: Ellenwood	State: GA	Zip: 30294	
Phone: 773-290-4086	e-Mail: efoster46@gmail.com		
Send Report To: Ernest Foster	Hardcopy: ☐	PDF e-Mail: ☒	
Sampled By: Ernie Foster			

Project I D: Highland Park
P O #:

Enter analyses required on the lines to the left. Place an "X" in the box below to indicate which samples require what analysis.

24-2055

Date/Time Taken	Sample Description	Matrix*	Supernatant Test	TSS, TVS, TDS	N-Ammonia	Phosphorus, Sulfate	Chloride	Lead, Zinc		HOLD-Do not analyze	Comments	Lab I.D.
3/14/24 11:31	HP-A Sediment 0 hr settling	S	✓	✓	✓	✓	✓	✓				001
" 11:31	HP-A Sediment 4 hr settling	S	✓	✓	✓	✓	✓	✓				002
" 11:35	HP-B Sediment 0 hr settling	S	✓	✓	✓	✓	✓	✓				003
" 11:33	HP-B Sediment 4 hr settling	S	✓	✓	✓	✓	✓	✓				004
" 11:34	HP-C Sediment 0 hr settling	S	✓	✓	✓	✓	✓	✓				005
" 11:35	HP-C Sediment 4 hr settling	S	✓	✓	✓	✓	✓	✓				006
" 11:40	HP Background Water	W		✓	✓	✓	✓	✓				007

FOR LAB USE ONLY:
Cooler Temperature: 0.1-6°C Yes X No 1.2 °C
Received within 6 hrs of collection:
Ice Present Yes X No

FOR LAB COURIER USE ONLY:
Sample Refrigerated: Yes No
Refrigerator Temperature: °C

Program: ☐ TACO/SRP ☐ CCDD ☐ NPDES ☐ LUST ☐ SDWA

Matrix Code Key: DW-drinking water GW-groundwater WW- wastewater W-water (unspecified) S-soil SL-sludge WIPE-wipe O-other

Notes and Special Instructions:

Relinquished By: E. Foster	Date/Time: 3/14/24 14:12	Received By:	Date/Time: 3/14/24 1415
Relinquished By:	Date/Time:	Received By:	Date/Time:

Rev 02/20

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Case Narrative

ENVIRONMENTAL SERVICES FIRM

Lab File ID: **24-2055**

Project ID: **Highland Park**

Date Received: **March 14, 2024**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected	
24-2055-001	HP-A Sediment 0 Hr Settling	03/14/24	11:31
24-2055-002	HP-A Sediment 4 Hr Settling	03/14/24	11:31
24-2055-003	HP-B Sediment 0 Hr Settling	03/14/24	11:33
24-2055-004	HP-B Sediment 4 Hr Settling	03/14/24	11:33
24-2055-005	HP-C Sediment 0 Hr Settling	03/14/24	11:34
24-2055-006	HP-C Sediment 4 Hr Settling	03/14/24	11:35
24-2055-007	HP Background Water	03/14/24	11:40

Sample Batch Comments:

Sample acceptance criteria were met.

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Case Narrative

ENVIRONMENTAL SERVICES FIRM

Lab File ID: **24-2055**

Project ID: **Highland Park**

Date Received: **March 14, 2024**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park
Sample ID: HP-A Sediment 0 Hr Settling
Sample No: 24-2055-001
Date Collected: 03/14/24
Time Collected: 11:31
Date Received: 03/14/24
Date Reported: 03/26/24

Need 2 No Treat Ambers per sample for background water

Analyte	Result	R.L.	Units	Flags
Metals, Supernatant Method 2540F **Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 03/19/24		Preparation Date: 03/19/24		
Analyzed By: KJM		Prepped By: KJM		
Lead, supernatant	0.005	0.005	mg/L	
Zinc, supernatant	0.031	0.010	mg/L	
Ammonia (as N), Supernatant 2540F **Method: 350.1**				
Analysis Date: 03/22/24				
Analyzed By: EMS				
Ammonia (as N), Supernatant	1.25	0.10	mg/L	
TSS, Supernatant Method 2540F **Method: 2540D 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TSS, Supernatant	202	5	mg/L	
TVS, Supernatant Method 2540F **Method: 2540E 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TVS, Supernatant	88	10	mg/L	
TDS, Supernatant Method 2540F **Method: 2540C 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TDS, Supernatant	183	10	mg/L	
Phosphorus (as P), Supernatant 2540F **Method: 4500P,E 1999**				
Analysis Date: 03/26/24				
Analyzed By: EMS				
Phosphorus (as P), Supernatant	0.12	0.02	mg/L	
Sulfate, Supernatant Method 2540F **Method: 4500SO4,E 1997**				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Sulfate, Supernatant	23	5	mg/L	
Chloride, Supernatant 2540F **Method: 4500Cl, E 2011/23rd**				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Chloride, Supernatant	26	2	mg/L	

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park
Sample ID: HP-A Sediment 4 Hr Settling
Sample No: 24-2055-002
Date Collected: 03/14/24
Time Collected: 11:31
Date Received: 03/14/24
Date Reported: 03/26/24

Need 2 No Treat Ambers per sample for background water

Analyte	Result	R.L.	Units	Flags
Metals, Supernatant Method 2540F **Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 03/19/24		Preparation Date: 03/19/24		
Analyzed By: KJM		Prepped By: KJM		
Lead, supernatant	< 0.005	0.005	mg/L	
Zinc, supernatant	0.013	0.010	mg/L	
Ammonia (as N), Supernatant 2540F **Method: 350.1**				
Analysis Date: 03/22/24				
Analyzed By: EMS				
Ammonia (as N), Supernatant	1.02	0.10	mg/L	
TSS, Supernatant Method 2540F **Method: 2540D 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TSS, Supernatant	23	5	mg/L	
TVS, Supernatant Method 2540F **Method: 2540E 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TVS, Supernatant	66	10	mg/L	
TDS, Supernatant Method 2540F **Method: 2540C 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TDS, Supernatant	235	10	mg/L	
Phosphorus (as P), Supernatant 2540F **Method: 4500P,E 1999**				
Analysis Date: 03/26/24				
Analyzed By: EMS				
Phosphorus (as P), Supernatant	0.04	0.02	mg/L	
Sulfate, Supernatant Method 2540F **Method: 4500SO4,E 1997**				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Sulfate, Supernatant	23	5	mg/L	
Chloride, Supernatant 2540F **Method: 4500Cl, E 2011/23rd**				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Chloride, Supernatant	26	2	mg/L	

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park
Sample ID: HP-B Sediment 0 Hr Settling
Sample No: 24-2055-003
Date Collected: 03/14/24
Time Collected: 11:33
Date Received: 03/14/24
Date Reported: 03/26/24

Need 2 No Treat Ambers per sample for background water

Analyte	Result	R.L.	Units	Flags
Metals, Supernatant Method 2540F **Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 03/19/24		Preparation Date: 03/19/24		
Analyzed By: KJM		Prepped By: KJM		
Lead, supernatant	< 0.005	0.005	mg/L	
Zinc, supernatant	0.019	0.010	mg/L	
Ammonia (as N), Supernatant 2540F **Method: 350.1**				
Analysis Date: 03/22/24				
Analyzed By: EMS				
Ammonia (as N), Supernatant	1.03	0.10	mg/L	
TSS, Supernatant Method 2540F **Method: 2540D 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TSS, Supernatant	139	5	mg/L	
TVS, Supernatant Method 2540F **Method: 2540E 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TVS, Supernatant	62	10	mg/L	
TDS, Supernatant Method 2540F **Method: 2540C 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TDS, Supernatant	207	10	mg/L	
Phosphorus (as P), Supernatant 2540F **Method: 4500P,E 1999**				
Analysis Date: 03/26/24				
Analyzed By: EMS				
Phosphorus (as P), Supernatant	0.09	0.02	mg/L	
Sulfate, Supernatant Method 2540F **Method: 4500SO4,E 1997**				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Sulfate, Supernatant	27	5	mg/L	
Chloride, Supernatant 2540F **Method: 4500Cl, E 2011/23rd**				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Chloride, Supernatant	26	2	mg/L	

First
Environmental
Laboratories, Inc.

IL ELAP / NELAC Certification # 100292

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park
Sample ID: HP-B Sediment 4 Hr Settling
Sample No: 24-2055-004
Need 2 No Treat Ambers per sample for background water

Date Collected: 03/14/24
Time Collected: 11:33
Date Received: 03/14/24
Date Reported: 03/26/24

Analyte		Result	R.L.	Units	Flags
Metals, Supernatant Method 2540F	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 03/19/24			Preparation Date: 03/19/24		
Analyzed By: KJM			Prepped By: KJM		
Lead, supernatant		< 0.005	0.005	mg/L	
Zinc, supernatant		< 0.010	0.010	mg/L	
Ammonia (as N), Supernatant 2540F	**Method: 350.1**				
Analysis Date: 03/22/24					
Analyzed By: EMS					
Ammonia (as N), Supernatant		1.58	0.10	mg/L	
TSS, Supernatant Method 2540F	**Method: 2540D 2015**				
Analysis Date: 03/21/24					
Analyzed By: AAS					
TSS, Supernatant		47	5	mg/L	
TVS, Supernatant Method 2540F	**Method: 2540E 2015**				
Analysis Date: 03/21/24					
Analyzed By: AAS					
TVS, Supernatant		52	10	mg/L	
TDS, Supernatant Method 2540F	**Method: 2540C 2015**				
Analysis Date: 03/21/24					
Analyzed By: AAS					
TDS, Supernatant		231	10	mg/L	
Phosphorus (as P), Supernatant 2540F	**Method: 4500P,E 1999**				
Analysis Date: 03/26/24					
Analyzed By: EMS					
Phosphorus (as P), Supernatant		0.08	0.02	mg/L	
Sulfate, Supernatant Method 2540F	**Method: 4500SO4,E 1997**				
Analysis Date: 03/19/24					
Analyzed By: EMS					
Sulfate, Supernatant		30	5	mg/L	
Chloride, Supernatant 2540F	**Method: 4500Cl, E 2011/23rd**				
Analysis Date: 03/19/24					
Analyzed By: EMS					
Chloride, Supernatant		26	2	mg/L	

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park
Sample ID: HP-C Sediment 0 Hr Settling
Sample No: 24-2055-005
Need 2 No Treat Ambers per sample for background water

Date Collected: 03/14/24
Time Collected: 11:34
Date Received: 03/14/24
Date Reported: 03/26/24

Analyte	Result	R.L.	Units	Flags
Metals, Supernatant Method 2540F **Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 03/19/24		Preparation Date: 03/19/24		
Analyzed By: KJM		Prepped By: KJM		
Lead, supernatant	< 0.005	0.005	mg/L	
Zinc, supernatant	0.023	0.010	mg/L	
Ammonia (as N), Supernatant 2540F **Method: 350.1**				
Analysis Date: 03/22/24				
Analyzed By: EMS				
Ammonia (as N), Supernatant	1.26	0.10	mg/L	
TSS, Supernatant Method 2540F **Method: 2540D 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TSS, Supernatant	229	5	mg/L	
TVS, Supernatant Method 2540F **Method: 2540E 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TVS, Supernatant	62	10	mg/L	
TDS, Supernatant Method 2540F **Method: 2540C 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TDS, Supernatant	158	10	mg/L	
Phosphorus (as P), Supernatant 2540F **Method: 4500P,E 1999**				
Analysis Date: 03/26/24				
Analyzed By: EMS				
Phosphorus (as P), Supernatant	0.10	0.02	mg/L	
Sulfate, Supernatant Method 2540F **Method: 4500SO4,E 1997**				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Sulfate, Supernatant	22	5	mg/L	
Chloride, Supernatant 2540F **Method: 4500Cl, E 2011/23rd**				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Chloride, Supernatant	26	2	mg/L	

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park
Sample ID: HP-C Sediment 4 Hr Settling
Sample No: 24-2055-006
Need 2 No Treat Ambers per sample for background water

Date Collected: 03/14/24
Time Collected: 11:35
Date Received: 03/14/24
Date Reported: 03/26/24

Analyte	Result	R.L.	Units	Flags
Metals, Supernatant Method 2540F **Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 03/19/24		Preparation Date: 03/19/24		
Analyzed By: KJM		Prepped By: KJM		
Lead, supernatant	< 0.005	0.005	mg/L	
Zinc, supernatant	< 0.010	0.010	mg/L	
Ammonia (as N), Supernatant 2540F **Method: 350.1**				
Analysis Date: 03/22/24				
Analyzed By: EMS				
Ammonia (as N), Supernatant	1.37	0.10	mg/L	
TSS, Supernatant Method 2540F **Method: 2540D 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TSS, Supernatant	141	5	mg/L	
TVS, Supernatant Method 2540F **Method: 2540E 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TVS, Supernatant	62	10	mg/L	
TDS, Supernatant Method 2540F **Method: 2540C 2015**				
Analysis Date: 03/21/24				
Analyzed By: AAS				
TDS, Supernatant	213	10	mg/L	
Phosphorus (as P), Supernatant 2540F **Method: 4500P,E 1999**				
Analysis Date: 03/26/24				
Analyzed By: EMS				
Phosphorus (as P), Supernatant	0.05	0.02	mg/L	
Sulfate, Supernatant Method 2540F **Method: 4500SO4,E 1997**				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Sulfate, Supernatant	23	5	mg/L	
Chloride, Supernatant 2540F **Method: 4500Cl, E 2011/23rd**				
Analysis Date: 03/19/24				
Analyzed By: EMS				
Chloride, Supernatant	26	2	mg/L	

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Analytical Report

Client:	ENVIRONMENTAL SERVICES FIRM	**Date Collected:**	03/14/24
Project ID:	Highland Park	**Time Collected:**	11:40
Sample ID:	HP Background Water	**Date Received:**	03/14/24
Sample No:	24-2055-007	**Date Reported:**	03/26/24

Analyte	Result	R.L.	Units	Flags
Ammonia (as N) **Method: 350.1R2.0** Analysis Date: 03/22/24 Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
Chloride **Method: 4500Cl, E 2011/23rd** Analysis Date: 03/19/24 Analyzed By: EMS				
Chloride	25	2	mg/L	
Phosphorus (as P) **Method: 4500P,E 1999** Analysis Date: 03/26/24 Analyzed By: EMS				
Phosphorus (as P)	0.05	0.02	mg/L	
Sulfate **Method: 4500SO4,E 1997** Analysis Date: 03/19/24 Analyzed By: EMS				
Sulfate	26	5	mg/L	
Total Dissolved Solids **Method: 2540C 1997** Analysis Date: 03/21/24 Analyzed By: AAS				
Total Dissolved Solids	205	10	mg/L	
Total Suspended Solids **Method: 2540D 2015** Analysis Date: 03/21/24 Analyzed By: AAS				
Total Suspended Solids	276	5	mg/L	
Total Volatile Solids @ 550°C **Method: 2540E 2015** Analysis Date: 03/21/24 Analyzed By: AAS				
Total Volatile Solids @ 550°C	48	10	mg/L	
Total Metals **Method: 6010C** **Preparation Method 3010A** Analysis Date: 03/19/24 Analyzed By: KJM Preparation Date: 03/19/24 Prepped By: KJM				
Lead	0.007	0.005	mg/L	
Zinc	0.027	0.01	mg/L	

ENVIRONMENTAL SERVICES FIRM, INC.

4035 PARK PLACE CIRCLE

ELLENWOOD, GA. 30294

May 14, 2024

Mike Evans
Park District of Highland Park
Landscape Architect
636 Ridge Road
Highland Park, Illinois 60035

Dear Mr. Evans;

On May 6, 2024, Environmental Services Firm, Inc., collected water samples from the Park District of Highland Park's, Park Avenue Boat Launching Dock, during dredging.

Two (2) samples were collected as backgrounds prior to the start of dredging. Two (2) samples were taken one (1) hour after the start of dredging from four (4) locations. Another two (2) taken the fourth (4th) hour after the start of dredging from four (4) locations.

First Environmental Laboratories, Inc., Analytical Report reflects samples #, the analyte, Method of testing, Reporting Limit and test results.

First Environmental Laboratories results must be submitted to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional Information, please contact me at (773) 290-4086 or efoster46@gmail.com.

Sincerely,

Ernest S. Foster
Environmental Services Firm, Inc.

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
E-mail: firstinfo@firstenv.com • www.firstenv.com
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CHAIN OF CUSTODY RECORD

Page 1 of 1 pgs

Company Name: ENVIRONMENTAL SERVICES FIRM
Street Address: 4035 PACK PLACE CIRCLE
City: ELLENWOOD State: GA Zip: 30294
Phone: 773-290-4086 e-mail: efoster46@gmail.com
Send Report To: ERNEST FOSTER
Sampled By: E. Foster

Project I.D.:
P.O. #:

Date/Time Taken	Sample Description	Matrix	TSS	PHOS (AS P)	N- AMMONIA	CHLORIDE	HARDNESS	PH			Hold – Do Not Analyze	Comments	Lab I.D.
5/6 10:20	PRIOR TO START SURFACE	W	✓	✓	✓	✓	✓	✓				24	-3735-001
" 10:20	" MID-DEPTH	W	✓	✓	✓	✓	✓	✓					-002
" 10:28	LOCATION 1 100' SURF 1HR	W	✓	✓	✓	✓							-003
" 10:28	LOCATION 1 100' M-D 1HR	W	✓	✓	✓	✓							-004
" 10:35	LOC 2 500' SUR 1HR	W	✓	✓	✓	✓							-005
" 10:37	LOC 2 500' MD 1HR	W	✓	✓	✓	✓							-006
"	LOC 1 100' SUR 4HR	W	✓	✓	✓	✓							-007
"	LOC 1 100' MD 4HR	W	✓	✓	✓	✓							-008
"	LOC 2 500' SUR 4HR	W	✓	✓	✓	✓							-009
"	LOC 2 500' MD 4HR	W	✓	✓	✓	✓							-010

FOR LAB USE ONLY:

Cooler Temperature: 0.1-6°C Yes__ No__ 4 °C
Received within 6 hrs of collection:
Ice Present: Yes__ No__

LAB COURIER USE ONLY:

Sample Refrigerated: Yes__ No__
Refrigerator Temperature:_____°C

Program: ☐ TACO/SRP ☐CCDD ☐NPDES ☐LUST ☐SDWA

***Matrix Code Key:** **S**-Soil **SL**-Sludge **DW**-Drinking Water **WW**-Wastewater **GW**-Groundwater **WIPE**-Wipe **O**-Other

Notes and Special Instructions:

Relinquished By: E. Foster **Date/Time** 5/6/4:20 **Received By:** **Date/Time** 5/6/24 1620
Relinquished By: **Date/Time** **Received By:** **Date/Time**

Rev. 6/19

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Case Narrative

ENVIRONMENTAL SERVICES FIRM

Project ID: **Highland Park Phase II**

Lab File ID: **24-3735**

Date Received: **May 06, 2024**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
24-3735-001	Prior to Start - Surface	05/06/24 10:20
24-3735-002	Prior to Start - Mid Depth	05/06/24 10:20
24-3735-003	Location 1-100' Surface 1Hr	05/06/24 10:28
24-3735-004	Location 1-100' Mid-Depth 1Hr	05/06/24 10:28
24-3735-005	Location 2-500' Surface 1Hr	05/06/24 10:35
24-3735-006	Location 2-500' Mid-Depth 1Hr	05/06/24 10:35
24-3735-007	Location 1-100' Surface 4Hr	05/06/24
24-3735-008	Location 1-100' Mid-Depth 4Hr	05/06/24
24-3735-009	Location 2-500' Surface 4Hr	05/06/24
24-3735-010	Location 2-500' Mid-Depth 4Hr	05/06/24 10:35

Sample Batch Comments:

Sample acceptance criteria were met.

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Case Narrative

ENVIRONMENTAL SERVICES FIRM

Project ID: **Highland Park Phase II**

Lab File ID: **24-3735**

Date Received: **May 06, 2024**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park Phase II
Sample ID: Prior to Start - Surface
Sample No: 24-3735-001

Date Collected: 05/06/24
Time Collected: 10:20
Date Received: 05/06/24
Date Reported: 05/14/24

Analyte	Result	R.L.	Units	Flags
Ammonia (as N) **Method: 350.1R2.0**				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	0.12	0.10	mg/L	
Chloride **Method: 4500Cl, E 2011/23rd**				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	16	2	mg/L	
Hardness, Total (as CaCO3) **Method: 2340C 2011**				
Analysis Date: 05/09/24				
Analyzed By: NH				
Hardness, Total (as CaCO3)	136	20	mg/L	
pH @ 25°C **Method: 4500H+,B 2011**				
Analysis Date: 05/08/24 10:30				
Analyzed By: NH				
pH @ 25°C	8.21		Units	A
Phosphorus (as P) **Method: 4500P,E 1999**				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	< 0.02	0.02	mg/L	
Total Suspended Solids **Method: 2540D 2015**				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	< 5	5	mg/L	

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park Phase II
Sample ID: Prior to Start - Mid Depth
Sample No: 24-3735-002

Date Collected: 05/06/24
Time Collected: 10:20
Date Received: 05/06/24
Date Reported: 05/14/24

Analyte	Result	R.L.	Units	Flags
Ammonia (as N) **Method: 350.1R2.0**				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	0.14	0.10	mg/L	
Chloride **Method: 4500Cl, E 2011/23rd**				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	17	2	mg/L	
Hardness, Total (as CaCO3) **Method: 2340C 2011**				
Analysis Date: 05/09/24				
Analyzed By: NH				
Hardness, Total (as CaCO3)	136	20	mg/L	
pH @ 25°C **Method: 4500H+,B 2011**				
Analysis Date: 05/08/24 10:30				
Analyzed By: NH				
pH @ 25°C	8.07		Units	A
Phosphorus (as P) **Method: 4500P,E 1999**				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	< 0.02	0.02	mg/L	
Total Suspended Solids **Method: 2540D 2015**				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	1,150	5	mg/L	

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park Phase II
Sample ID: Location 1-100' Surface 1Hr
Sample No: 24-3735-003

Date Collected: 05/06/24
Time Collected: 10:28
Date Received: 05/06/24
Date Reported: 05/14/24

Analyte	Result	R.L.	Units	Flags
Ammonia (as N) **Method: 350.1R2.0** Analysis Date: 05/09/24 Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
Chloride **Method: 4500Cl, E 2011/23rd** Analysis Date: 05/08/24 Analyzed By: NZ				
Chloride	17	2	mg/L	
Phosphorus (as P) **Method: 4500P,E 1999** Analysis Date: 05/14/24 Analyzed By: JCG				
Phosphorus (as P)	< 0.02	0.02	mg/L	
Total Suspended Solids **Method: 2540D 2015** Analysis Date: 05/13/24 Analyzed By: AAS				
Total Suspended Solids	< 5	5	mg/L	

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park Phase II
Sample ID: Location 1-100' Mid-Depth 1Hr
Sample No: 24-3735-004

Date Collected: 05/06/24
Time Collected: 10:28
Date Received: 05/06/24
Date Reported: 05/14/24

Analyte	Result	R.L.	Units	Flags
Ammonia (as N)	**Method: 350.1R2.0**			
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
Chloride	**Method: 4500Cl, E 2011/23rd**			
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	17	2	mg/L	
Phosphorus (as P)	**Method: 4500P,E 1999**			
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	0.03	0.02	mg/L	
Total Suspended Solids	**Method: 2540D 2015**			
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	3,730	5	mg/L	

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park Phase II
Sample ID: Location 2-500' Surface 1Hr
Sample No: 24-3735-005

Date Collected: 05/06/24
Time Collected: 10:35
Date Received: 05/06/24
Date Reported: 05/14/24

Analyte	Result	R.L.	Units	Flags
Ammonia (as N) **Method: 350.1R2.0**				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
Chloride **Method: 4500Cl, E 2011/23rd**				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	16	2	mg/L	
Phosphorus (as P) **Method: 4500P,E 1999**				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	0.08	0.02	mg/L	
Total Suspended Solids **Method: 2540D 2015**				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	51	5	mg/L	

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park Phase II
Sample ID: Location 2-500' Mid-Depth 1Hr
Sample No: 24-3735-006

Date Collected: 05/06/24
Time Collected: 10:35
Date Received: 05/06/24
Date Reported: 05/14/24

Analyte	Result	R.L.	Units	Flags
Ammonia (as N) **Method: 350.1R2.0** Analysis Date: 05/09/24 Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
Chloride **Method: 4500Cl, E 2011/23rd** Analysis Date: 05/08/24 Analyzed By: NZ				
Chloride	17	2	mg/L	
Phosphorus (as P) **Method: 4500P,E 1999** Analysis Date: 05/14/24 Analyzed By: JCG				
Phosphorus (as P)	< 0.02	0.02	mg/L	
Total Suspended Solids **Method: 2540D 2015** Analysis Date: 05/13/24 Analyzed By: AAS				
Total Suspended Solids	262	5	mg/L	

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park Phase II
Sample ID: Location 1-100' Surface 4Hr
Sample No: 24-3735-007

Date Collected: 05/06/24
Time Collected:
Date Received: 05/06/24
Date Reported: 05/14/24

Analyte	Result	R.L.	Units	Flags
Ammonia (as N) **Method: 350.1R2.0**				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
Chloride **Method: 4500Cl, E 2011/23rd**				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	16	2	mg/L	
Phosphorus (as P) **Method: 4500P,E 1999**				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	< 0.02	0.02	mg/L	
Total Suspended Solids **Method: 2540D 2015**				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	9	5	mg/L	

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park Phase II
Sample ID: Location 1-100' Mid-Depth 4Hr
Sample No: 24-3735-008

Date Collected: 05/06/24
Time Collected:
Date Received: 05/06/24
Date Reported: 05/14/24

Analyte	Result	R.L.	Units	Flags
Ammonia (as N) **Method: 350.1R2.0**				
Analysis Date: 05/09/24				
Analyzed By: EMS				
Ammonia (as N)	< 0.10	0.10	mg/L	
Chloride **Method: 4500Cl, E 2011/23rd**				
Analysis Date: 05/08/24				
Analyzed By: NZ				
Chloride	17	2	mg/L	
Phosphorus (as P) **Method: 4500P,E 1999**				
Analysis Date: 05/14/24				
Analyzed By: JCG				
Phosphorus (as P)	0.05	0.02	mg/L	
Total Suspended Solids **Method: 2540D 2015**				
Analysis Date: 05/13/24				
Analyzed By: AAS				
Total Suspended Solids	88	5	mg/L	

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park Phase II
Sample ID: Location 2-500' Surface 4Hr
Sample No: 24-3735-009

Date Collected: 05/06/24
Time Collected:
Date Received: 05/06/24
Date Reported: 05/14/24

Analyte	Result	R.L.	Units	Flags
Ammonia (as N) **Method: 350.1R2.0** Analysis Date: 05/09/24 Analyzed By: EMS				
Ammonia (as N)	0.12	0.10	mg/L	
Chloride **Method: 4500Cl, E 2011/23rd** Analysis Date: 05/08/24 Analyzed By: NZ				
Chloride	16	2	mg/L	
Phosphorus (as P) **Method: 4500P,E 1999** Analysis Date: 05/14/24 Analyzed By: JCG				
Phosphorus (as P)	< 0.02	0.02	mg/L	
Total Suspended Solids **Method: 2540D 2015** Analysis Date: 05/13/24 Analyzed By: AAS				
Total Suspended Solids	< 5	5	mg/L	

First Environmental Laboratories, Inc.

IL ELAP / NELAC Certification # 100292

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Analytical Report

Client: ENVIRONMENTAL SERVICES FIRM
Project ID: Highland Park Phase II
Sample ID: Location 2-500' Mid-Depth 4Hr
Sample No: 24-3735-010

Date Collected: 05/06/24
Time Collected: 10:35
Date Received: 05/06/24
Date Reported: 05/14/24

Analyte	Result	R.L.	Units	Flags
Ammonia (as N) **Method: 350.1R2.0** Analysis Date: 05/09/24 Analyzed By: EMS				
Ammonia (as N)	0.10	0.10	mg/L	
Chloride **Method: 4500Cl, E 2011/23rd** Analysis Date: 05/08/24 Analyzed By: NZ				
Chloride	17	2	mg/L	
Phosphorus (as P) **Method: 4500P,E 1999** Analysis Date: 05/14/24 Analyzed By: JCG				
Phosphorus (as P)	0.02	0.02	mg/L	
Total Suspended Solids **Method: 2540D 2015** Analysis Date: 05/13/24 Analyzed By: AAS				
Total Suspended Solids	46	5	mg/L	