



Arlington Conservation Commission

Date: Thursday, June 26, 2025

Time: 7:00 PM

Location: Conducted by Remote Participation.

Please register in advance for this meeting. Reference materials, instructions, and access information for this specific meeting will be available 48 hours prior to the meeting on the Commission's agenda and minutes page. This meeting will be conducted in a remote format consistent with An Act Extending Certain COVID-19 Measures Adopted During the State of Emergency, which further extends certain COVID-19 measures regarding remote participation in public meetings until June 30, 2027. Please note: Not all items listed may in fact be discussed and other items not listed may be brought up for discussion to the extent permitted by law. This agenda includes those matters which can be reasonably anticipated to be discussed at the meeting.

Agenda

1. Administrative
 - a. Review Meeting Minutes.
 - b. Correspondence Received.
2. Discussion
 - a. Arlington High School Building Committee Artificial Turf Test Results.
 - b. Fishing Line Impacts Discussion and Vote.
 - Presentation by Laura Kiesel.
 - c. Water Bodies Working Group.
 - d. CPA Committee Liaison.
 - e. Tree Committee Update.
 - f. Symmes Conservation Restriction.
 - g. Recreation Department Update.

3. Hearings

Notice of Intent: 16-38 Drake Road (Drake Village) (DEP #091-0371).

Notice of Intent: 16-38 Drake Road (Drake Village) (DEP #091-0371).

The Arlington Conservation Commission will hold a public hearing to consider a Notice of Intent under the Wetlands Protection Act and Arlington Bylaw for Wetlands Protection for sewer line replacement and repaving of the drive aisle and parking area at the Drake Village Complex at 16-38 Drake Road.



Town of Arlington, Massachusetts

Correspondence Received.

Summary:

Correspondence Received.

ATTACHMENTS:

Type	File Name	Description
▢ Reference Material	Correspondence_Received_-_Fishing_at_Menotomy_Rocks_-_Becky_Anthony.pdf	Correspondence Received - Fishing at Menotomy Rocks - Becky Anthony.pdf
▢ Reference Material	Correspondence_Received_-_Fishing_at_Menotomy_Rocks_-_Lynette_Culverhouse.pdf	Correspondence Received - Fishing at Menotomy Rocks - Lynette Culverhouse.pdf
▢ Reference Material	Correspondence_Received_-_Fishing_at_Menotomy_Rocks_-_MSPCA.pdf	Correspondence Received - Fishing at Menotomy Rocks - MSPCA.pdf
▢ Reference Material	Correspondence_Received_-_Thorndike_Place_-_Arlington_Select_Board.pdf	Correspondence Received - Thorndike Place - Arlington Select Board.pdf

David Morgan

From: Becky Anthony <bck.anthony@gmail.com>
Sent: Monday, June 2, 2025 9:52 PM
To: Natasha Waden
Cc: J.Feeney@town.arlington.ma.us; ConComm
Subject: Fishing problems at Hill's Pond

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Dear Director Waden,

As a resident of Arlington for over 23 years and a birder, I was horrified to learn of the recent decision of the Arlington Parks and Recreation department to continue to allow fishing at Hill's Pond at Menotomy Rocks Park. Despite the entanglement and death of a Great Blue Heron at Hill's Pond, the presumed death of another heron that swallowed a bobber and hook, the constant mess in the trees, several assertions that Hill's Pond is inappropriate for fishing, and hundreds of signatures to pause fishing, Arlington has decided to look the other way.

As I understand it, most of the fishing line litter originates from unsupervised children at the pond. Instead of using this crisis as an opportunity to teach children to appreciate and respect wildlife, Arlington is enabling more wildlife casualties and destruction of habitat, leaving children none the wiser.

It's disconcerting that the primary force protecting wildlife from fishing lines is a group of volunteers and the unpaid nonprofit Save Arlington Wildlife. Without their intervention, the park would likely suffer much greater numbers of wildlife casualties. Arlington needs to step up and take more responsibility for this situation.

I urge you to reconsider and place an immediate moratorium on fishing at Hill's Pond.

Sincerely,

Rebecca Anthony
Arlington Resident

David Morgan

From: Lynette Culverhouse <lculverhouse@gmail.com>
Sent: Wednesday, June 4, 2025 6:39 AM
To: ConComm
Cc: Laura Kiesel
Subject: fishing line damage to wildlife

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

I am appealing to the conservation commission to please take some proactive steps to stop the unnecessary death of our birds of prey from fishing line entanglement. At this time when we are losing so many of our birds of prey to rat poison we don't want to add another hazard to their already precarious lives. We need our natural predators to control our rodent population. And there is no reason residents who like to fish can't do it responsibly. It is on us to make that happen or to ban it altogether if we don't trust our residents to take responsibility for their own behavior. I'd like to see a massive educational campaign around responsible fishing with the threat that if it doesn't happen it will be banned in certain bodies of water. We just can't allow more death and destruction. It's unnecessary.

Thank you.

Lynette Culverhouse
TMM precinct 11

June 5, 2025

Dear members of the Arlington Conservation Committee, Mr. Feeney, and Mr. Morgan,

The Massachusetts Society for the Prevention of Cruelty to Animals (MSPCA-Angell) submits this letter in support of efforts to pause recreational fishing at Menotomy Rocks Park's Hill's Pond. The mission of the MSPCA involves protecting animals, relieving their suffering, and advancing their health and welfare. We are concerned that fishing at this pond is causing unintended, painful consequences, ensnaring nontarget wildlife in discarded lines and negatively impacting the broader ecosystem.

Since last fall, there have been several fishing line incidents involving herons. In September 2024, an Arlington resident captured a photograph of a Great Blue Heron swallowing a live fish with a hook, line, and bobber still attached, a likely fatal injury. Just a few weeks later, in October 2024, a juvenile black-crowned night heron was found entangled with a barbed lure embedded in its thigh in Spy Pond. While this heron was fortunately rehabilitated and released, positive outcomes such as this are rare. Most recently, in April, a Great Blue Heron died after becoming caught by a hook through its wing and line wrapped around its legs. And wildlife are not the only ones impacted—one resident's dog became tangled in a line.

Discarded fishing equipment not only inflicts unnecessary cruelty and suffering, but can also damage the ecosystem. As top predators, herons play an important role in regulating prey populations. Herons are also considered an 'indicator species,' meaning that they are especially sensitive to changes in water quality and habitat health. Therefore, if herons begin to decline or leave an area, it can alert people to problems with water pollution or other environmental issues.

Volunteer clean up efforts around Hill's Pond have been found to be unrealistic and unsustainable. The work is incredibly time-consuming and challenging, often requiring equipment like waders or kayaks. Also, not long after the clean up was concluded, debris began to accumulate again.

The MSPCA therefore urges the Town of Arlington to pause recreational fishing at Hill's Pond in Menotomy Rocks Park until a comprehensive plan is developed to address these issues. Discarded fishing equipment is proving deadly to Arlington wildlife and is also potentially damaging the town's ecosystem. By pausing, the town would have the opportunity to develop an effective plan, while also preventing further unnecessary animal suffering and death.

Thank you for your consideration.

Kind regards,
Liz

Elizabeth Magner

Animal Advocacy Specialist Massachusetts Society for the Prevention of Cruelty to Animals (MSPCA)
350 South Huntington Avenue, Boston, MA 02130 | 617-541-5104 | emagner@mspca.org

OFFICE OF THE SELECT BOARD

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730 MASSACHUSETTS AVENUE
TELEPHONE
781-316-3020
781-316-3029 FAX

TOWN OF ARLINGTON
MASSACHUSETTS 02476-4908

June 9, 2025

By EMAIL: georgia.pendergast@mass.gov

Georgia Pendergast, Environmental Analyst
MassDEP Wetlands Program
150 Presidential Way
Woburn, MA 01801

Re: Request for Superseding Order of Conditions
Thorndike Place, Dorothy Road, Arlington, Massachusetts
DEP File #091-0356

Dear Ms. Pendergast:

The Arlington Select Board (the “Board”) offers the following comments regarding the Request for a Superseding Order of Conditions that Arlington Land Realty, LLC (the “Applicant”) filed with the Massachusetts Department of Environmental Protection (“DEP”) on May 1, 2025, for the proposed project known as Thorndike Place.

Earlier this year, the Board learned that the Arlington Conservation Commission (the “Commission”) did not approve an Order of Conditions (“OOC”) for Thorndike Place because a majority of the Commission members eligible to vote did not find that the Applicant had submitted sufficient information to describe the proposed work or the effect of such work on the interests identified in the Wetlands Protection Act (“WPA”). The following were among the deficiencies two Commission members cited in support of their votes to deny the issuance of an OOC:

- 1) “[U]ncertainty in the ESHGW¹ used to plan the stormwater systems;
- 2) uncertainty in the HydroCAD modeling due to different infiltration rate inputs used for System #1 and other systems, including System #7;
- 3) uncertainty in the mounding analysis effects of System #1;

¹ Estimated Seasonal High Groundwater

- 4) uncertainty in the efficacy of peer reviewer's two recommendations to meet Stormwater Standards #2 & #3 since data to support the efficacy of these recommendations is not in the record;"²
- 5) "I can't pull a condition out of the material that has been presented because some of the things I've asked for just simply weren't done."³

One member summarized her vote to deny the issuance of an OOC as follows:

"[T]he project stormwater management system as proposed does not protect the interests of the [Wetlands Protection] Act, has unacceptable uncertainty in data presented such that a determination of compliance with Stormwater Standards #2 & #3 cannot be made, and the project as proposed cannot be conditioned to protect the interests of the Act for Groundwater Protection, Pollution Prevention, Flood Prevention, and Prevention of Storm Damage."⁴

The above conclusions were not surprising. Indeed, more than a year before the Thorndike Place hearings closed, the Board was informed that considerable uncertainty existed as to the Applicant's determination of the groundwater levels at the site, a critical factor in the calculation of the ESHGW level utilized to establish whether a proposed stormwater system meets the performance standards required under the WPA, and whether additional testing, such as mounding analyses, were necessary. The notification came in the form of a written request we received on February 27, 2024 from the Arlington Land Trust ("ALT"), seeking the Board's approval to allow the placement of two monitoring wells (the "ALT Wells") on Town owned land located only a short distance from wells the Applicant had installed at Thorndike Place.

On March 4, 2024, the Board unanimously approved the installation of the ALT Wells. Following installation, the ALT Wells provided objective information to assist the Commission in evaluating the ESHGW levels the Applicant presented through its consultant. A further benefit was that the ALT Wells provided continuous monitoring, as contrasted with the Applicant's wells, which were single measurement test pits. Significantly, the record before the Commission shows that recorded groundwater elevation levels at the ALT Wells exceeded the ESHGW estimates contained within reports prepared by the Applicant's consultants.

The conclusion the two Commission members reached that the proposed project could not be conditioned to protect the interests of the WPA regarding groundwater and the prevention of storm damage is consistent with both the data obtained from the ALT Wells and the Town's collective experience with the 17-acre site ("Mugar Woods") that includes Thorndike Place. For decades, Arlington Town officials and residents have expressed concerns over the environmental conditions at the Mugar Woods. As an example, the Town included in its 2015 Master Plan, which was endorsed by the Select Board⁵ and Town Meeting, the goal of keeping Mugar Woods as open space in light of its fragile environmental condition and its tendency for flooding. These concerns led the Select Board in 2015 to oppose the proposed Thorndike Place project at the

² Statement of Commission member Susan Chapnick at March 6, 2025 Commission meeting.

³ Statement of Commission Chair Charles Tirone at March 6, 2025 Commission meeting.

⁴ Statement of Commission member Susan Chapnick at March 6, 2025 Commission meeting.

⁵ Prior to 2019, the Select Board was known as the Board of Selectmen.

project eligibility stage before MassHousing. Beyond the concerns raised by our local government officials, all members of the Town's state legislative delegation have expressed their opposition to Thorndike Place due to environmental concerns.⁶

In closing, the Board supports the reasons listed above that resulted in the Commission not approving the Applicant's request for an OOC. We are also aware that ALT's consultants have provided DEP with materials included in the record before the Commission that support their concerns about the design of the stormwater management system proposed for Thorndike Place. ALT's consultants have also requested that DEP require the Applicant to perform additional testing at the site. We respectfully request that your review of the Applicant's application for a Superseding Order of Conditions include consideration of these concerns and the request for additional testing and calculations, particularly those that involve the calculation of an ESHGW elevation and the need for a mounding analysis that evaluates the cumulative impacts of mounding on Infiltration Systems 1 and 7, the largest infiltration systems proposed for Thorndike Place.

Thank you for the opportunity to express our concerns in this matter.

Respectfully submitted,
On behalf of the Arlington Select Board
as its Chair,

A handwritten signature in blue ink that reads "Diane M Mahon". The signature is written in a cursive, flowing style.

Diane M. Mahon

cc: Arlington Conservation Commission
Arlington Land Realty, LLC
Arlington Land Trust

⁶ Letters of Opposition from Senator Cindy Friedman, Representative Sean Garballey, and Representative David Rogers are included in the Commission's record from the Thorndike Place hearing.



Town of Arlington, Massachusetts

Arlington High School Building Committee Artificial Turf Test Results.

Summary:

Arlington High School Building Committee Artificial Turf Test Results.

ATTACHMENTS:

Type	File Name	Description
▢ Reference Material	AHSBC_Artificial_Turf_Memo_and_Reports.pdf	AHSBC Artificial Turf Memo and Reports.pdf
▢ Reference Material	Comments_by_Susan_Chapnick_on_Artificial_Turf_Test_Results.pdf	Comments by Susan Chapnick on Artificial Turf Test Results.pdf

ARLINGTON HIGH SCHOOL BUILDING COMMITTEE



Date: June 18, 2025

From: Arlington High School Building Committee

To: Arlington Conservation Commission

Re: Working Group Meeting Regarding Zinc in Artificial Turf Infill

Dear Members of the Conservation Commission:

Please receive this correspondence as the requisite follow-up from the working group meeting held on June 13th. As you are aware, it was determined at the Commission's June 5th meeting that further discussion regarding zinc levels in the infill was warranted. Accordingly, a meeting was held to review the CAM-17 test results for zinc, and discuss the potential implications for the resource area.

It was decided at the working group meeting that the zinc levels identified in the CAM-17 test were in fact compliant with the Order of Conditions. In short, Pace Laboratories improperly applied the standard for hazardous waste when making their pass/fail determination. Of course, the artificial turf infill material is a commercial product and is not classified as a hazardous waste. When applying the CAM-17 standard for soil (a more appropriate surrogate) of 23,000 mg/Kg, the identified zinc concentration of 13,600 mg/kg is not an exceedance.

It should be noted the standard for soil is set to be protective of human health; however, further research revealed that groundwater monitoring well testing data collected over time at the artificial turf field at the Fenn School in Concord, MA (DEP 137-1032) consistently found zinc levels met the Ambient Water Quality Criteria and MassDEP MCP GW-3 standards. Moreover, further evaluation of the zinc testing data contained in the Connecticut Department of Environmental Protection study presented previously revealed that the reported zinc exceedances were confounded by runoff from acres of parking lots, roadways and buildings entering a drainage system shared with the turf field. Based on the foregoing, it is not expected zinc from the artificial turf infill will leach at a level which would harm the resource area.

As a result of the meeting, it was determined that additional zinc testing is not warranted, and there is no further action requested of the Commission regarding zinc at this time.

Sincerely,

The Arlington High School Building Committee



146 Fairchild Street
Suite 150
Daniel Island, SC 29492
Ph: 843-936-6023
Fx: 843-410-5712
www.sprinturf.com

TRANSMITTAL

DATE: 6/13/2025 Trans. #: 1
TO: Arlington HS - Amphitheater
ATTENTION: Mason Saunders

RE: Arlington HS - Amphitheater
FROM: Caitlin Olive

We are sending you: Submittal
Via: EMAIL

☐ Shop Drawings ☐ Samples ☐ Plans ☐ Specs
☒ Product Data ☐ Contract ☐ Letter ☐ CLOSEOUT DOCS

Copies	Date	Description
1	6/13/2025	Turf Colors & Infill VOC/SVOC Testing Results

If you do not receive the items indicated, please advise the undersigned immediately!!

These are transmitted as checked below:

☒ For Approval
☒ For Review & Comment

The Items Listed Above are Hereby
Approved By:

Signature: _____

Remarks:

Caitlin Olive

Project Manager Assistant



RTI Laboratories
33080 Industrial Rd.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Friday, June 13, 2025

Caitlin Olive
Sprinturf
146 Fairchild Street, Suite 150
Daniel Island, SC 29492
TEL: (843) 754-6980
FAX:

RE: Additional testing requested for turf colors (5) and crumb rubber (1

Work Order #: 2505249

Dear Caitlin Olive:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Lloyd Kaufman", is written over a light blue horizontal line.

Lloyd Kaufman
Vice President, Director of Materials Sciences

RTI Laboratories, Inc. - Workorder Sample Summary

WO#: 2505249

Date Reported: 6/13/2025
Original

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
2505249-001A	Maroon			5/16/2025 12:04 PM	Solid
2505249-001B	Maroon			5/16/2025 12:04 PM	Solid
2505249-002A	White			5/16/2025 12:04 PM	Solid
2505249-002B	White			5/16/2025 12:04 PM	Solid
2505249-003A	GRay			5/16/2025 12:04 PM	Solid
2505249-003B	GGray			5/16/2025 12:04 PM	Solid
2505249-004A	Fild and Lime Green			5/16/2025 12:04 PM	Solid
2505249-004B	Fild and Lime Green			5/16/2025 12:04 PM	Solid
2505249-005A	Vegas Gold			5/16/2025 12:04 PM	Solid
2505249-005B	Vegas Gold			5/16/2025 12:04 PM	Solid
2505249-006A	Crumb Rubber Infil			5/16/2025 12:04 PM	Solid
2505249-006B	Crumb Rubber Infil			5/16/2025 12:04 PM	Solid

Client: Sprinturf**Project:** Additional testing requested for turf colors (5) and crumb rubber (1)

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

All sample analyses included a Method Blank, LCS/LCSD, MS/MSD, Duplicates, post digestion spikes, serial dilutions, and all method specified quality control, as applicable. All QC parameters were within established control limits except where noted on the QC report and/or below. Initial and continuing calibration results were within method specifications, except as noted below.

Pesticide and PCB analysis clarification:

Organochlorine Pesticides: Surrogates were not evaluated for CCV and CRQL samples for Chlordane and Toxaphene. Chlordane and Toxaphene are not present in the LCS, MS and MSD spiking solution.

Polychlorinated Biphenyls (PCB): The spiking solutions only contain the peaks for Aroclors 1016 and 1260.

Any comments or problems with the analytical events associated with this report are noted below.

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
 Project: Additional testing requested for turf colors (5) and crumb rubber (1)
 Lab ID: 2505249-001
 Client Sample ID: Maroon
 Collection Date:
 Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds		Method: SW8270D		SW3550C	Analyst: GMSR	
1,2,4-Trichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
1,2-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
1,3-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
1,4-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2,4,5-Trichlorophenol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2,4,6-Trichlorophenol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2,4-Dichlorophenol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2,4-Dimethylphenol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2,4-Dinitrophenol	ND	17000		µg/Kg	10	6/9/2025 6:14 PM
2,4-Dinitrotoluene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2,6-Dichlorophenol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2,6-Dinitrotoluene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2-Chloronaphthalene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2-Chlorophenol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2-Methyl-4,6-dinitrophenol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2-Methylnaphthalene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2-Methylphenol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2-Nitroaniline	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
2-Nitrophenol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
3,3'-Dichlorobenzidine	ND	17000		µg/Kg	10	6/9/2025 6:14 PM
3-Nitroaniline	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
4-Bromophenyl phenyl ether	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
4-Chloro-3-methylphenol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
4-Chloroaniline	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
4-Chlorophenyl phenyl ether	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
4-Nitroaniline	ND	6500		µg/Kg	10	6/9/2025 6:14 PM
4-Nitrophenol	ND	17000		µg/Kg	10	6/9/2025 6:14 PM
Acenaphthene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Acenaphthylene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Aniline	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Anthracene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Benzidine	ND	17000		µg/Kg	10	6/9/2025 6:14 PM
Benzo (g,h,i) perylene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Benzo(a)anthracene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Benzo(a)pyrene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Benzo(b)fluoranthene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Benzo(k)fluoranthene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Benzoic acid	ND	17000		µg/Kg	10	6/9/2025 6:14 PM
Benzyl alcohol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Bis(2-chloroethoxy)methane	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Bis(2-chloroethyl) ether	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Bis(2-chloroisopropyl) ether	ND	3200		µg/Kg	10	6/9/2025 6:14 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
 Project: Additional testing requested for turf colors (5) and crumb rubber (1)
 Lab ID: 2505249-001
 Client Sample ID: Maroon

Collection Date:
 Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Bis(2-ethylhexyl) phthalate	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Butyl benzyl phthalate	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Carbazole	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Chrysene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Di-n-butyl phthalate	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Di-n-octyl phthalate	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Dibenzo(a,h)anthracene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Dibenzofuran	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Diethyl phthalate	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Dimethyl phthalate	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Fluoranthene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Fluorene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Hexachlorobenzene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Hexachlorobutadiene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Hexachlorocyclopentadiene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Hexachloroethane	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Indeno(1,2,3-cd)pyrene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Isophorone	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
M,P-Cresol	ND	6500		µg/Kg	10	6/9/2025 6:14 PM
N-Nitrosodi-n-propylamine	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
N-Nitrosodiethylamine	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
N-Nitrosodimethylamine	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
N-Nitrosodiphenylamine	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Naphthalene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Nitrobenzene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Pentachlorophenol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Phenanthrene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Phenol	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Pyrene	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Pyridine	ND	3200		µg/Kg	10	6/9/2025 6:14 PM
Surr: 2,4,6-Tribromophenol	68.8	39-132		%Rec	10	6/9/2025 6:14 PM
Surr: 2-Fluorobiphenyl	69.2	44-115		%Rec	10	6/9/2025 6:14 PM
Surr: 2-Fluorophenol	48.4	35-115		%Rec	10	6/9/2025 6:14 PM
Surr: Nitrobenzene-d5	61.6	37-122		%Rec	10	6/9/2025 6:14 PM
Surr: Phenol-d5	66.0	33-122		%Rec	10	6/9/2025 6:14 PM
Surr: Terphenyl-d14	95.6	54-127		%Rec	10	6/9/2025 6:14 PM
Volatile Organic Compounds	Method: SW8260D		SW5035		Analyst: POS	
1,1,1,2-Tetrachloroethane	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
1,1,1-Trichloroethane	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
1,1,2-Trichloroethane	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
1,1-Dichloroethane	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
1,1-Dichloroethene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025
Original

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Lab ID: 2505249-001
Client Sample ID: Maroon

Collection Date:
Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
1,1-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
1,2,3-Trimethylbenzene	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
1,2-Dibromoethane	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
1,2-Dichloroethane	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
1,2-Dichloroethene, Total	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
1,2-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
1,3,5-Trichlorobenzene	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
1,3-Dichlorobenzene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
1,3-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
1,4-Dichlorobenzene	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
2,2-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
2-Chloroethyl vinyl ether	ND	10		µg/Kg	1	5/29/2025 8:51 PM
2-Chlorotoluene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
2-Hexanone	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
2-Methylnaphthalene	ND	10		µg/Kg	1	5/29/2025 8:51 PM
2-Nitropropane	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
4-Chlorotoluene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
4-Isopropyltoluene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
4-Methyl-2-pentanone	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Acetone	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
Acrolein	ND	20		µg/Kg	1	5/29/2025 8:51 PM
Acrylonitrile	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Benzene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
Bromobenzene	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Bromochloromethane	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
Bromodichloromethane	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
Bromoform	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Bromomethane	ND	10		µg/Kg	1	5/29/2025 8:51 PM
Carbon disulfide	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Carbon tetrachloride	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
Chlorobenzene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
Chloroethane	ND	10		µg/Kg	1	5/29/2025 8:51 PM
Chloroform	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
Chloromethane	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
cis-1,3-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
Cyclohexane	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025
Original

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Lab ID: 2505249-001
Client Sample ID: Maroon

Collection Date:
Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Dibromomethane	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
Diethyl ether	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
Ethyl methacrylate	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Ethyl methyl ketone	ND	20		µg/Kg	1	5/29/2025 8:51 PM
Ethyl tert-Butyl ether	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Ethylbenzene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
Hexachlorobutadiene	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Hexachloroethane	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Isopropyl ether	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
Isopropylbenzene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
m,p-Xylene	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Methyl Acetate	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
Methyl Iodide	ND	20		µg/Kg	1	5/29/2025 8:51 PM
Methyl tert-butyl ether	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Methylcyclohexane	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Methylene chloride	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
n-Butylbenzene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
n-Propylbenzene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
Naphthalene	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
o-Xylene	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
sec-Butylbenzene	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Styrene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
t-Butyl alcohol	ND	50		µg/Kg	1	5/29/2025 8:51 PM
tert-Amyl Methyl Ether	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
tert-Butylbenzene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
Toluene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
trans-1,2-Dichloroethylene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
trans-1,3-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 8:51 PM
trans-1,4-Dichloro-2-butene	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Trichloroethene	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
Trichlorotrifluoroethane	ND	2.0		µg/Kg	1	5/29/2025 8:51 PM
Vinyl acetate	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
Vinyl chloride	ND	5.0		µg/Kg	1	5/29/2025 8:51 PM
Xylenes, Total	ND	7.0		µg/Kg	1	5/29/2025 8:51 PM
Surr: 4-Bromofluorobenzene	100	79-119		%Rec	1	5/29/2025 8:51 PM
Surr: Dibromofluoromethane	100	78-119		%Rec	1	5/29/2025 8:51 PM
Surr: Toluene-d8	99.5	85-116		%Rec	1	5/29/2025 8:51 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
 Project: Additional testing requested for turf colors (5) and crumb rubber (1)
 Lab ID: 2505249-002
 Client Sample ID: White
 Collection Date:
 Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds		Method: SW8270D		SW3550C	Analyst: GMSR	
1,2,4-Trichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
1,2-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
1,3-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
1,4-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2,4,5-Trichlorophenol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2,4,6-Trichlorophenol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2,4-Dichlorophenol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2,4-Dimethylphenol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2,4-Dinitrophenol	ND	17000		µg/Kg	10	6/9/2025 6:43 PM
2,4-Dinitrotoluene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2,6-Dichlorophenol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2,6-Dinitrotoluene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2-Chloronaphthalene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2-Chlorophenol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2-Methyl-4,6-dinitrophenol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2-Methylnaphthalene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2-Methylphenol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2-Nitroaniline	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
2-Nitrophenol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
3,3'-Dichlorobenzidine	ND	17000		µg/Kg	10	6/9/2025 6:43 PM
3-Nitroaniline	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
4-Bromophenyl phenyl ether	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
4-Chloro-3-methylphenol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
4-Chloroaniline	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
4-Chlorophenyl phenyl ether	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
4-Nitroaniline	ND	6400		µg/Kg	10	6/9/2025 6:43 PM
4-Nitrophenol	ND	17000		µg/Kg	10	6/9/2025 6:43 PM
Acenaphthene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Acenaphthylene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Aniline	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Anthracene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Benzidine	ND	17000		µg/Kg	10	6/9/2025 6:43 PM
Benzo (g,h,i) perylene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Benzo(a)anthracene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Benzo(a)pyrene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Benzo(b)fluoranthene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Benzo(k)fluoranthene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Benzoic acid	ND	17000		µg/Kg	10	6/9/2025 6:43 PM
Benzyl alcohol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Bis(2-chloroethoxy)methane	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Bis(2-chloroethyl) ether	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Bis(2-chloroisopropyl) ether	ND	3200		µg/Kg	10	6/9/2025 6:43 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
 Project: Additional testing requested for turf colors (5) and crumb rubber (1)
 Lab ID: 2505249-002
 Client Sample ID: White
 Collection Date:
 Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Bis(2-ethylhexyl) phthalate	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Butyl benzyl phthalate	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Carbazole	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Chrysene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Di-n-butyl phthalate	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Di-n-octyl phthalate	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Dibenzo(a,h)anthracene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Dibenzofuran	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Diethyl phthalate	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Dimethyl phthalate	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Fluoranthene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Fluorene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Hexachlorobenzene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Hexachlorobutadiene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Hexachlorocyclopentadiene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Hexachloroethane	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Indeno(1,2,3-cd)pyrene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Isophorone	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
M,P-Cresol	ND	6400		µg/Kg	10	6/9/2025 6:43 PM
N-Nitrosodi-n-propylamine	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
N-Nitrosodiethylamine	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
N-Nitrosodimethylamine	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
N-Nitrosodiphenylamine	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Naphthalene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Nitrobenzene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Pentachlorophenol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Phenanthrene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Phenol	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Pyrene	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Pyridine	ND	3200		µg/Kg	10	6/9/2025 6:43 PM
Surr: 2,4,6-Tribromophenol	59.6	39-132		%Rec	10	6/9/2025 6:43 PM
Surr: 2-Fluorobiphenyl	66.8	44-115		%Rec	10	6/9/2025 6:43 PM
Surr: 2-Fluorophenol	49.2	35-115		%Rec	10	6/9/2025 6:43 PM
Surr: Nitrobenzene-d5	58.0	37-122		%Rec	10	6/9/2025 6:43 PM
Surr: Phenol-d5	64.4	33-122		%Rec	10	6/9/2025 6:43 PM
Surr: Terphenyl-d14	85.6	54-127		%Rec	10	6/9/2025 6:43 PM
Volatile Organic Compounds	Method: SW8260D		SW5035		Analyst: POS	
1,1,1,2-Tetrachloroethane	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
1,1,1-Trichloroethane	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
1,1,2-Trichloroethane	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
1,1-Dichloroethane	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
1,1-Dichloroethene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025
Original

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Lab ID: 2505249-002
Client Sample ID: White
Collection Date:
Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
1,1-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
1,2,3-Trimethylbenzene	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
1,2-Dibromoethane	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
1,2-Dichloroethane	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
1,2-Dichloroethene, Total	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
1,2-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
1,3,5-Trichlorobenzene	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
1,3-Dichlorobenzene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
1,3-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
1,4-Dichlorobenzene	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
2,2-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
2-Chloroethyl vinyl ether	ND	10		µg/Kg	1	5/29/2025 9:16 PM
2-Chlorotoluene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
2-Hexanone	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
2-Methylnaphthalene	ND	10		µg/Kg	1	5/29/2025 9:16 PM
2-Nitropropane	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
4-Chlorotoluene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
4-Isopropyltoluene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
4-Methyl-2-pentanone	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Acetone	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
Acrolein	ND	20		µg/Kg	1	5/29/2025 9:16 PM
Acrylonitrile	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Benzene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
Bromobenzene	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Bromochloromethane	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
Bromodichloromethane	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
Bromoform	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Bromomethane	ND	10		µg/Kg	1	5/29/2025 9:16 PM
Carbon disulfide	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Carbon tetrachloride	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
Chlorobenzene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
Chloroethane	ND	10		µg/Kg	1	5/29/2025 9:16 PM
Chloroform	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
Chloromethane	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
cis-1,3-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
Cyclohexane	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025
Original

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Lab ID: 2505249-002
Client Sample ID: White
Collection Date:
Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Dibromomethane	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
Diethyl ether	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
Ethyl methacrylate	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Ethyl methyl ketone	ND	20		µg/Kg	1	5/29/2025 9:16 PM
Ethyl tert-Butyl ether	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Ethylbenzene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
Hexachlorobutadiene	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Hexachloroethane	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Isopropyl ether	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
Isopropylbenzene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
m,p-Xylene	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Methyl Acetate	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
Methyl Iodide	ND	20		µg/Kg	1	5/29/2025 9:16 PM
Methyl tert-butyl ether	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Methylcyclohexane	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Methylene chloride	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
n-Butylbenzene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
n-Propylbenzene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
Naphthalene	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
o-Xylene	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
sec-Butylbenzene	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Styrene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
t-Butyl alcohol	ND	50		µg/Kg	1	5/29/2025 9:16 PM
tert-Amyl Methyl Ether	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
tert-Butylbenzene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
Toluene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
trans-1,2-Dichloroethylene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
trans-1,3-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 9:16 PM
trans-1,4-Dichloro-2-butene	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Trichloroethene	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
Trichlorotrifluoroethane	ND	2.0		µg/Kg	1	5/29/2025 9:16 PM
Vinyl acetate	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
Vinyl chloride	ND	5.0		µg/Kg	1	5/29/2025 9:16 PM
Xylenes, Total	ND	7.0		µg/Kg	1	5/29/2025 9:16 PM
Surr: 4-Bromofluorobenzene	101	79-119		%Rec	1	5/29/2025 9:16 PM
Surr: Dibromofluoromethane	100	78-119		%Rec	1	5/29/2025 9:16 PM
Surr: Toluene-d8	99.7	85-116		%Rec	1	5/29/2025 9:16 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
 Project: Additional testing requested for turf colors (5) and crumb rubber (1)
 Lab ID: 2505249-003
 Client Sample ID: GRay
 Collection Date:
 Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds		Method: SW8270D		SW3550C	Analyst: GMSR	
1,2,4-Trichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
1,2-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
1,3-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
1,4-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2,4,5-Trichlorophenol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2,4,6-Trichlorophenol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2,4-Dichlorophenol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2,4-Dimethylphenol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2,4-Dinitrophenol	ND	17000		µg/Kg	10	6/9/2025 7:11 PM
2,4-Dinitrotoluene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2,6-Dichlorophenol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2,6-Dinitrotoluene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2-Chloronaphthalene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2-Chlorophenol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2-Methyl-4,6-dinitrophenol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2-Methylnaphthalene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2-Methylphenol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2-Nitroaniline	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
2-Nitrophenol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
3,3'-Dichlorobenzidine	ND	17000		µg/Kg	10	6/9/2025 7:11 PM
3-Nitroaniline	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
4-Bromophenyl phenyl ether	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
4-Chloro-3-methylphenol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
4-Chloroaniline	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
4-Chlorophenyl phenyl ether	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
4-Nitroaniline	ND	6500		µg/Kg	10	6/9/2025 7:11 PM
4-Nitrophenol	ND	17000		µg/Kg	10	6/9/2025 7:11 PM
Acenaphthene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Acenaphthylene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Aniline	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Anthracene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Benzidine	ND	17000		µg/Kg	10	6/9/2025 7:11 PM
Benzo (g,h,i) perylene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Benzo(a)anthracene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Benzo(a)pyrene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Benzo(b)fluoranthene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Benzo(k)fluoranthene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Benzoic acid	ND	17000		µg/Kg	10	6/9/2025 7:11 PM
Benzyl alcohol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Bis(2-chloroethoxy)methane	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Bis(2-chloroethyl) ether	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Bis(2-chloroisopropyl) ether	ND	3200		µg/Kg	10	6/9/2025 7:11 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
 Project: Additional testing requested for turf colors (5) and crumb rubber (1)
 Lab ID: 2505249-003
 Client Sample ID: GRay
 Collection Date:
 Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Bis(2-ethylhexyl) phthalate	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Butyl benzyl phthalate	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Carbazole	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Chrysene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Di-n-butyl phthalate	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Di-n-octyl phthalate	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Dibenzo(a,h)anthracene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Dibenzofuran	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Diethyl phthalate	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Dimethyl phthalate	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Fluoranthene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Fluorene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Hexachlorobenzene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Hexachlorobutadiene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Hexachlorocyclopentadiene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Hexachloroethane	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Indeno(1,2,3-cd)pyrene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Isophorone	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
M,P-Cresol	ND	6500		µg/Kg	10	6/9/2025 7:11 PM
N-Nitrosodi-n-propylamine	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
N-Nitrosodiethylamine	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
N-Nitrosodimethylamine	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
N-Nitrosodiphenylamine	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Naphthalene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Nitrobenzene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Pentachlorophenol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Phenanthrene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Phenol	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Pyrene	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Pyridine	ND	3200		µg/Kg	10	6/9/2025 7:11 PM
Surr: 2,4,6-Tribromophenol	53.6	39-132		%Rec	10	6/9/2025 7:11 PM
Surr: 2-Fluorobiphenyl	57.6	44-115		%Rec	10	6/9/2025 7:11 PM
Surr: 2-Fluorophenol	37.2	35-115		%Rec	10	6/9/2025 7:11 PM
Surr: Nitrobenzene-d5	49.2	37-122		%Rec	10	6/9/2025 7:11 PM
Surr: Phenol-d5	53.6	33-122		%Rec	10	6/9/2025 7:11 PM
Surr: Terphenyl-d14	82.0	54-127		%Rec	10	6/9/2025 7:11 PM
Volatile Organic Compounds	Method: SW8260D		SW5035		Analyst: POS	
1,1,1,2-Tetrachloroethane	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
1,1,1-Trichloroethane	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
1,1,2-Trichloroethane	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
1,1-Dichloroethane	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
1,1-Dichloroethene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025
Original

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Lab ID: 2505249-003
Client Sample ID: GRay
Collection Date:
Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
1,1-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
1,2,3-Trimethylbenzene	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
1,2-Dibromoethane	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
1,2-Dichloroethane	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
1,2-Dichloroethene, Total	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
1,2-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
1,3,5-Trichlorobenzene	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
1,3-Dichlorobenzene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
1,3-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
1,4-Dichlorobenzene	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
2,2-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
2-Chloroethyl vinyl ether	ND	10		µg/Kg	1	5/29/2025 9:42 PM
2-Chlorotoluene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
2-Hexanone	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
2-Methylnaphthalene	ND	10		µg/Kg	1	5/29/2025 9:42 PM
2-Nitropropane	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
4-Chlorotoluene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
4-Isopropyltoluene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
4-Methyl-2-pentanone	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Acetone	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
Acrolein	ND	20		µg/Kg	1	5/29/2025 9:42 PM
Acrylonitrile	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Benzene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
Bromobenzene	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Bromochloromethane	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
Bromodichloromethane	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
Bromoform	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Bromomethane	ND	10		µg/Kg	1	5/29/2025 9:42 PM
Carbon disulfide	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Carbon tetrachloride	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
Chlorobenzene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
Chloroethane	ND	10		µg/Kg	1	5/29/2025 9:42 PM
Chloroform	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
Chloromethane	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
cis-1,3-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
Cyclohexane	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM

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RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025
Original

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Lab ID: 2505249-003
Client Sample ID: GRay
Collection Date:
Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Dibromomethane	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
Diethyl ether	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
Ethyl methacrylate	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Ethyl methyl ketone	ND	20		µg/Kg	1	5/29/2025 9:42 PM
Ethyl tert-Butyl ether	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Ethylbenzene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
Hexachlorobutadiene	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Hexachloroethane	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Isopropyl ether	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
Isopropylbenzene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
m,p-Xylene	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Methyl Acetate	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
Methyl Iodide	ND	20		µg/Kg	1	5/29/2025 9:42 PM
Methyl tert-butyl ether	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Methylcyclohexane	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Methylene chloride	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
n-Butylbenzene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
n-Propylbenzene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
Naphthalene	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
o-Xylene	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
sec-Butylbenzene	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Styrene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
t-Butyl alcohol	ND	50		µg/Kg	1	5/29/2025 9:42 PM
tert-Amyl Methyl Ether	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
tert-Butylbenzene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
Toluene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
trans-1,2-Dichloroethylene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
trans-1,3-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 9:42 PM
trans-1,4-Dichloro-2-butene	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Trichloroethene	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
Trichlorotrifluoroethane	ND	2.0		µg/Kg	1	5/29/2025 9:42 PM
Vinyl acetate	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
Vinyl chloride	ND	5.0		µg/Kg	1	5/29/2025 9:42 PM
Xylenes, Total	ND	7.0		µg/Kg	1	5/29/2025 9:42 PM
Surr: 4-Bromofluorobenzene	102	79-119		%Rec	1	5/29/2025 9:42 PM
Surr: Dibromofluoromethane	99.6	78-119		%Rec	1	5/29/2025 9:42 PM
Surr: Toluene-d8	99.2	85-116		%Rec	1	5/29/2025 9:42 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
 Project: Additional testing requested for turf colors (5) and crumb rubber (1)
 Lab ID: 2505249-004
 Client Sample ID: Fild and Lime Green
 Collection Date:
 Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds		Method: SW8270D		SW3550C	Analyst: GMSR	
1,2,4-Trichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
1,2-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
1,3-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
1,4-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2,4,5-Trichlorophenol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2,4,6-Trichlorophenol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2,4-Dichlorophenol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2,4-Dimethylphenol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2,4-Dinitrophenol	ND	17000		µg/Kg	10	6/9/2025 7:39 PM
2,4-Dinitrotoluene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2,6-Dichlorophenol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2,6-Dinitrotoluene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2-Chloronaphthalene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2-Chlorophenol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2-Methyl-4,6-dinitrophenol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2-Methylnaphthalene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2-Methylphenol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2-Nitroaniline	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
2-Nitrophenol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
3,3'-Dichlorobenzidine	ND	17000		µg/Kg	10	6/9/2025 7:39 PM
3-Nitroaniline	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
4-Bromophenyl phenyl ether	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
4-Chloro-3-methylphenol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
4-Chloroaniline	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
4-Chlorophenyl phenyl ether	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
4-Nitroaniline	ND	6400		µg/Kg	10	6/9/2025 7:39 PM
4-Nitrophenol	ND	17000		µg/Kg	10	6/9/2025 7:39 PM
Acenaphthene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Acenaphthylene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Aniline	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Anthracene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Benzidine	ND	17000		µg/Kg	10	6/9/2025 7:39 PM
Benzo (g,h,i) perylene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Benzo(a)anthracene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Benzo(a)pyrene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Benzo(b)fluoranthene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Benzo(k)fluoranthene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Benzoic acid	ND	17000		µg/Kg	10	6/9/2025 7:39 PM
Benzyl alcohol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Bis(2-chloroethoxy)methane	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Bis(2-chloroethyl) ether	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Bis(2-chloroisopropyl) ether	ND	3200		µg/Kg	10	6/9/2025 7:39 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
 Project: Additional testing requested for turf colors (5) and crumb rubber (1)
 Lab ID: 2505249-004
 Client Sample ID: Fild and Lime Green
 Collection Date:
 Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Bis(2-ethylhexyl) phthalate	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Butyl benzyl phthalate	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Carbazole	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Chrysene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Di-n-butyl phthalate	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Di-n-octyl phthalate	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Dibenzo(a,h)anthracene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Dibenzofuran	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Diethyl phthalate	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Dimethyl phthalate	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Fluoranthene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Fluorene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Hexachlorobenzene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Hexachlorobutadiene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Hexachlorocyclopentadiene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Hexachloroethane	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Indeno(1,2,3-cd)pyrene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Isophorone	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
M,P-Cresol	ND	6400		µg/Kg	10	6/9/2025 7:39 PM
N-Nitrosodi-n-propylamine	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
N-Nitrosodiethylamine	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
N-Nitrosodimethylamine	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
N-Nitrosodiphenylamine	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Naphthalene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Nitrobenzene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Pentachlorophenol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Phenanthrene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Phenol	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Pyrene	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Pyridine	ND	3200		µg/Kg	10	6/9/2025 7:39 PM
Surr: 2,4,6-Tribromophenol	50.4	39-132		%Rec	10	6/9/2025 7:39 PM
Surr: 2-Fluorobiphenyl	56.0	44-115		%Rec	10	6/9/2025 7:39 PM
Surr: 2-Fluorophenol	36.8	35-115		%Rec	10	6/9/2025 7:39 PM
Surr: Nitrobenzene-d5	46.8	37-122		%Rec	10	6/9/2025 7:39 PM
Surr: Phenol-d5	52.4	33-122		%Rec	10	6/9/2025 7:39 PM
Surr: Terphenyl-d14	79.6	54-127		%Rec	10	6/9/2025 7:39 PM
Volatile Organic Compounds	Method: SW8260D		SW5035		Analyst: POS	
1,1,1,2-Tetrachloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
1,1,1-Trichloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
1,1,2-Trichloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
1,1-Dichloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
1,1-Dichloroethene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Lab ID: 2505249-004
Client Sample ID: Fild and Lime Green
Collection Date:
Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
1,1-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
1,2,3-Trimethylbenzene	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
1,2-Dibromoethane	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
1,2-Dichloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
1,2-Dichloroethene, Total	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
1,2-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
1,3,5-Trichlorobenzene	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
1,3-Dichlorobenzene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
1,3-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
1,4-Dichlorobenzene	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
2,2-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
2-Chloroethyl vinyl ether	ND	10		µg/Kg	1	5/29/2025 10:07 PM
2-Chlorotoluene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
2-Hexanone	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
2-Methylnaphthalene	ND	10		µg/Kg	1	5/29/2025 10:07 PM
2-Nitropropane	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
4-Chlorotoluene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
4-Isopropyltoluene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
4-Methyl-2-pentanone	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Acetone	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
Acrolein	ND	20		µg/Kg	1	5/29/2025 10:07 PM
Acrylonitrile	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Benzene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
Bromobenzene	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Bromochloromethane	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
Bromodichloromethane	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
Bromoform	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Bromomethane	ND	10		µg/Kg	1	5/29/2025 10:07 PM
Carbon disulfide	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Carbon tetrachloride	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
Chlorobenzene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
Chloroethane	ND	10		µg/Kg	1	5/29/2025 10:07 PM
Chloroform	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
Chloromethane	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
cis-1,3-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
Cyclohexane	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025
Original

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Lab ID: 2505249-004
Client Sample ID: Fild and Lime Green
Collection Date:
Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Dibromomethane	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
Diethyl ether	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
Ethyl methacrylate	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Ethyl methyl ketone	ND	20		µg/Kg	1	5/29/2025 10:07 PM
Ethyl tert-Butyl ether	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Ethylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
Hexachlorobutadiene	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Hexachloroethane	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Isopropyl ether	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
Isopropylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
m,p-Xylene	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Methyl Acetate	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
Methyl Iodide	ND	20		µg/Kg	1	5/29/2025 10:07 PM
Methyl tert-butyl ether	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Methylcyclohexane	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Methylene chloride	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
n-Butylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
n-Propylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
Naphthalene	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
o-Xylene	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
sec-Butylbenzene	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Styrene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
t-Butyl alcohol	ND	50		µg/Kg	1	5/29/2025 10:07 PM
tert-Amyl Methyl Ether	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
tert-Butylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
Toluene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
trans-1,2-Dichloroethylene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
trans-1,3-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 10:07 PM
trans-1,4-Dichloro-2-butene	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Trichloroethene	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
Trichlorotrifluoroethane	ND	2.0		µg/Kg	1	5/29/2025 10:07 PM
Vinyl acetate	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
Vinyl chloride	ND	5.0		µg/Kg	1	5/29/2025 10:07 PM
Xylenes, Total	ND	7.0		µg/Kg	1	5/29/2025 10:07 PM
Surr: 4-Bromofluorobenzene	99.9	79-119		%Rec	1	5/29/2025 10:07 PM
Surr: Dibromofluoromethane	101	78-119		%Rec	1	5/29/2025 10:07 PM
Surr: Toluene-d8	99.3	85-116		%Rec	1	5/29/2025 10:07 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
 Project: Additional testing requested for turf colors (5) and crumb rubber (1)
 Lab ID: 2505249-005
 Client Sample ID: Vegas Gold

Collection Date:
 Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds	Method: SW8270D		SW3550C		Analyst: GMSR	
1,2,4-Trichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
1,2-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
1,3-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
1,4-Dichlorobenzene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2,4,5-Trichlorophenol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2,4,6-Trichlorophenol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2,4-Dichlorophenol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2,4-Dimethylphenol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2,4-Dinitrophenol	ND	17000		µg/Kg	10	6/9/2025 8:08 PM
2,4-Dinitrotoluene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2,6-Dichlorophenol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2,6-Dinitrotoluene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2-Chloronaphthalene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2-Chlorophenol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2-Methyl-4,6-dinitrophenol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2-Methylnaphthalene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2-Methylphenol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2-Nitroaniline	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
2-Nitrophenol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
3,3'-Dichlorobenzidine	ND	17000		µg/Kg	10	6/9/2025 8:08 PM
3-Nitroaniline	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
4-Bromophenyl phenyl ether	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
4-Chloro-3-methylphenol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
4-Chloroaniline	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
4-Chlorophenyl phenyl ether	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
4-Nitroaniline	ND	6400		µg/Kg	10	6/9/2025 8:08 PM
4-Nitrophenol	ND	17000		µg/Kg	10	6/9/2025 8:08 PM
Acenaphthene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Acenaphthylene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Aniline	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Anthracene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Benzidine	ND	17000		µg/Kg	10	6/9/2025 8:08 PM
Benzo (g,h,i) perylene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Benzo(a)anthracene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Benzo(a)pyrene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Benzo(b)fluoranthene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Benzo(k)fluoranthene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Benzoic acid	ND	17000		µg/Kg	10	6/9/2025 8:08 PM
Benzyl alcohol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Bis(2-chloroethoxy)methane	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Bis(2-chloroethyl) ether	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Bis(2-chloroisopropyl) ether	ND	3200		µg/Kg	10	6/9/2025 8:08 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025
Original

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Lab ID: 2505249-005
Client Sample ID: Vegas Gold
Collection Date:
Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Bis(2-ethylhexyl) phthalate	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Butyl benzyl phthalate	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Carbazole	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Chrysene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Di-n-butyl phthalate	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Di-n-octyl phthalate	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Dibenzo(a,h)anthracene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Dibenzofuran	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Diethyl phthalate	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Dimethyl phthalate	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Fluoranthene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Fluorene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Hexachlorobenzene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Hexachlorobutadiene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Hexachlorocyclopentadiene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Hexachloroethane	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Indeno(1,2,3-cd)pyrene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Isophorone	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
M,P-Cresol	ND	6400		µg/Kg	10	6/9/2025 8:08 PM
N-Nitrosodi-n-propylamine	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
N-Nitrosodiethylamine	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
N-Nitrosodimethylamine	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
N-Nitrosodiphenylamine	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Naphthalene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Nitrobenzene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Pentachlorophenol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Phenanthrene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Phenol	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Pyrene	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Pyridine	ND	3200		µg/Kg	10	6/9/2025 8:08 PM
Surr: 2,4,6-Tribromophenol	54.8	39-132		%Rec	10	6/9/2025 8:08 PM
Surr: 2-Fluorobiphenyl	59.2	44-115		%Rec	10	6/9/2025 8:08 PM
Surr: 2-Fluorophenol	44.4	35-115		%Rec	10	6/9/2025 8:08 PM
Surr: Nitrobenzene-d5	50.4	37-122		%Rec	10	6/9/2025 8:08 PM
Surr: Phenol-d5	59.2	33-122		%Rec	10	6/9/2025 8:08 PM
Surr: Terphenyl-d14	87.2	54-127		%Rec	10	6/9/2025 8:08 PM
Volatile Organic Compounds	Method: SW8260D		SW5035		Analyst: POS	
1,1,1,2-Tetrachloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
1,1,1-Trichloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
1,1,2-Trichloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
1,1-Dichloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
1,1-Dichloroethene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
 Project: Additional testing requested for turf colors (5) and crumb rubber (1)
 Lab ID: 2505249-005
 Client Sample ID: Vegas Gold

Collection Date:

Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
1,1-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
1,2,3-Trimethylbenzene	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
1,2-Dibromoethane	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
1,2-Dichloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
1,2-Dichloroethene, Total	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
1,2-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
1,3,5-Trichlorobenzene	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
1,3-Dichlorobenzene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
1,3-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
1,4-Dichlorobenzene	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
2,2-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
2-Chloroethyl vinyl ether	ND	10		µg/Kg	1	5/29/2025 10:33 PM
2-Chlorotoluene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
2-Hexanone	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
2-Methylnaphthalene	ND	10		µg/Kg	1	5/29/2025 10:33 PM
2-Nitropropane	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
4-Chlorotoluene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
4-Isopropyltoluene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
4-Methyl-2-pentanone	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Acetone	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
Acrolein	ND	20		µg/Kg	1	5/29/2025 10:33 PM
Acrylonitrile	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Benzene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
Bromobenzene	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Bromochloromethane	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
Bromodichloromethane	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
Bromoform	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Bromomethane	ND	10		µg/Kg	1	5/29/2025 10:33 PM
Carbon disulfide	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Carbon tetrachloride	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
Chlorobenzene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
Chloroethane	ND	10		µg/Kg	1	5/29/2025 10:33 PM
Chloroform	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
Chloromethane	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
cis-1,3-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
Cyclohexane	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025
Original

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Lab ID: 2505249-005
Client Sample ID: Vegas Gold

Collection Date:
Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Dibromomethane	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
Diethyl ether	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
Ethyl methacrylate	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Ethyl methyl ketone	ND	20		µg/Kg	1	5/29/2025 10:33 PM
Ethyl tert-Butyl ether	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Ethylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
Hexachlorobutadiene	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Hexachloroethane	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Isopropyl ether	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
Isopropylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
m,p-Xylene	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Methyl Acetate	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
Methyl Iodide	ND	20		µg/Kg	1	5/29/2025 10:33 PM
Methyl tert-butyl ether	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Methylcyclohexane	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Methylene chloride	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
n-Butylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
n-Propylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
Naphthalene	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
o-Xylene	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
sec-Butylbenzene	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Styrene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
t-Butyl alcohol	ND	50		µg/Kg	1	5/29/2025 10:33 PM
tert-Amyl Methyl Ether	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
tert-Butylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
Toluene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
trans-1,2-Dichloroethylene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
trans-1,3-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 10:33 PM
trans-1,4-Dichloro-2-butene	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Trichloroethene	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
Trichlorotrifluoroethane	ND	2.0		µg/Kg	1	5/29/2025 10:33 PM
Vinyl acetate	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
Vinyl chloride	ND	5.0		µg/Kg	1	5/29/2025 10:33 PM
Xylenes, Total	ND	7.0		µg/Kg	1	5/29/2025 10:33 PM
Surr: 4-Bromofluorobenzene	101	79-119		%Rec	1	5/29/2025 10:33 PM
Surr: Dibromofluoromethane	102	78-119		%Rec	1	5/29/2025 10:33 PM
Surr: Toluene-d8	99.7	85-116		%Rec	1	5/29/2025 10:33 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
 Project: Additional testing requested for turf colors (5) and crumb rubber (1)
 Lab ID: 2505249-006
 Client Sample ID: Crumb Rubber Infil

Collection Date:

Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds	Method: SW8270D		SW3550C		Analyst: GMSR	
1,2,4-Trichlorobenzene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
1,2-Dichlorobenzene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
1,3-Dichlorobenzene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
1,4-Dichlorobenzene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2,4,5-Trichlorophenol	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2,4,6-Trichlorophenol	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2,4-Dichlorophenol	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2,4-Dimethylphenol	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2,4-Dinitrophenol	ND	25000		µg/Kg	3	6/9/2025 8:36 PM
2,4-Dinitrotoluene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2,6-Dichlorophenol	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2,6-Dinitrotoluene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2-Chloronaphthalene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2-Chlorophenol	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2-Methyl-4,6-dinitrophenol	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2-Methylnaphthalene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2-Methylphenol	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2-Nitroaniline	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
2-Nitrophenol	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
3,3'-Dichlorobenzidine	ND	25000		µg/Kg	3	6/9/2025 8:36 PM
3-Nitroaniline	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
4-Bromophenyl phenyl ether	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
4-Chloro-3-methylphenol	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
4-Chloroaniline	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
4-Chlorophenyl phenyl ether	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
4-Nitroaniline	ND	9700		µg/Kg	3	6/9/2025 8:36 PM
4-Nitrophenol	ND	25000		µg/Kg	3	6/9/2025 8:36 PM
Acenaphthene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Acenaphthylene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Aniline	5100	4800		µg/Kg	3	6/9/2025 8:36 PM
Anthracene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Benzidine	ND	25000		µg/Kg	3	6/9/2025 8:36 PM
Benzo (g,h,i) perylene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Benzo(a)anthracene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Benzo(a)pyrene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Benzo(b)fluoranthene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Benzo(k)fluoranthene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Benzoic acid	ND	25000		µg/Kg	3	6/9/2025 8:36 PM
Benzyl alcohol	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Bis(2-chloroethoxy)methane	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Bis(2-chloroethyl) ether	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Bis(2-chloroisopropyl) ether	ND	4800		µg/Kg	3	6/9/2025 8:36 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025

Original

Client: Sprinturf
 Project: Additional testing requested for turf colors (5) and crumb rubber (1)
 Lab ID: 2505249-006
 Client Sample ID: Crumb Rubber Infil

Collection Date:
 Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Bis(2-ethylhexyl) phthalate	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Butyl benzyl phthalate	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Carbazole	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Chrysene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Di-n-butyl phthalate	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Di-n-octyl phthalate	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Dibenzo(a,h)anthracene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Dibenzofuran	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Diethyl phthalate	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Dimethyl phthalate	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Fluoranthene	6400	4800		µg/Kg	3	6/9/2025 8:36 PM
Fluorene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Hexachlorobenzene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Hexachlorobutadiene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Hexachlorocyclopentadiene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Hexachloroethane	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Indeno(1,2,3-cd)pyrene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Isophorone	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
M,P-Cresol	ND	9700		µg/Kg	3	6/9/2025 8:36 PM
N-Nitrosodi-n-propylamine	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
N-Nitrosodiethylamine	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
N-Nitrosodimethylamine	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
N-Nitrosodiphenylamine	5700	4800		µg/Kg	3	6/9/2025 8:36 PM
Naphthalene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Nitrobenzene	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Pentachlorophenol	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Phenanthrene	7600	4800		µg/Kg	3	6/9/2025 8:36 PM
Phenol	ND	4800	m	µg/Kg	3	6/9/2025 8:36 PM
Pyrene	33000	4800		µg/Kg	3	6/9/2025 8:36 PM
Pyridine	ND	4800		µg/Kg	3	6/9/2025 8:36 PM
Surr: 2,4,6-Tribromophenol	55.2	39-132		%Rec	3	6/9/2025 8:36 PM
Surr: 2-Fluorobiphenyl	67.8	44-115		%Rec	3	6/9/2025 8:36 PM
Surr: 2-Fluorophenol	40.2	35-115		%Rec	3	6/9/2025 8:36 PM
Surr: Nitrobenzene-d5	63.6	37-122		%Rec	3	6/9/2025 8:36 PM
Surr: Phenol-d5	54.6	33-122		%Rec	3	6/9/2025 8:36 PM
Surr: Terphenyl-d14	121	54-127		%Rec	3	6/9/2025 8:36 PM
Volatile Organic Compounds	Method: SW8260D		SW5035		Analyst: POS	
1,1,1,2-Tetrachloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
1,1,1-Trichloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
1,1,2-Trichloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
1,1-Dichloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
1,1-Dichloroethene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM

RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025
Original

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Lab ID: 2505249-006
Client Sample ID: Crumb Rubber Infil

Collection Date:
Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
1,1-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
1,2,3-Trimethylbenzene	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
1,2,4-Trimethylbenzene	1.4	1.0		µg/Kg	1	5/29/2025 10:58 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
1,2-Dibromoethane	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
1,2-Dichloroethane	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
1,2-Dichloroethene, Total	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
1,2-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
1,3,5-Trichlorobenzene	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
1,3-Dichlorobenzene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
1,3-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
1,4-Dichlorobenzene	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
2,2-Dichloropropane	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
2-Chloroethyl vinyl ether	ND	10		µg/Kg	1	5/29/2025 10:58 PM
2-Chlorotoluene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
2-Hexanone	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
2-Methylnaphthalene	11	10		µg/Kg	1	5/29/2025 10:58 PM
2-Nitropropane	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
4-Chlorotoluene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
4-Isopropyltoluene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
4-Methyl-2-pentanone	88	2.0		µg/Kg	1	5/29/2025 10:58 PM
Acetone	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
Acrolein	ND	20		µg/Kg	1	5/29/2025 10:58 PM
Acrylonitrile	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Benzene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
Bromobenzene	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Bromochloromethane	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
Bromodichloromethane	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
Bromoform	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Bromomethane	ND	10		µg/Kg	1	5/29/2025 10:58 PM
Carbon disulfide	3.6	2.0		µg/Kg	1	5/29/2025 10:58 PM
Carbon tetrachloride	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
Chlorobenzene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
Chloroethane	ND	10		µg/Kg	1	5/29/2025 10:58 PM
Chloroform	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
Chloromethane	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
cis-1,3-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
Cyclohexane	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM

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RTI Laboratories, Inc. - Analytical Report

WO#: 2505249

Date Reported: 6/13/2025
Original

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Lab ID: 2505249-006
Client Sample ID: Crumb Rubber Infil

Collection Date:
Matrix: Solid

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Dibromomethane	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
Diethyl ether	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
Ethyl methacrylate	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Ethyl methyl ketone	ND	20		µg/Kg	1	5/29/2025 10:58 PM
Ethyl tert-Butyl ether	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Ethylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
Hexachlorobutadiene	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Hexachloroethane	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Isopropyl ether	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
Isopropylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
m,p-Xylene	4.5	2.0		µg/Kg	1	5/29/2025 10:58 PM
Methyl Acetate	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
Methyl Iodide	ND	20		µg/Kg	1	5/29/2025 10:58 PM
Methyl tert-butyl ether	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Methylcyclohexane	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Methylene chloride	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
n-Butylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
n-Propylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
Naphthalene	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
o-Xylene	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
sec-Butylbenzene	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Styrene	1.0	1.0		µg/Kg	1	5/29/2025 10:58 PM
t-Butyl alcohol	ND	50		µg/Kg	1	5/29/2025 10:58 PM
tert-Amyl Methyl Ether	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
tert-Butylbenzene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
Tetrachloroethene	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
Toluene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
trans-1,2-Dichloroethylene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
trans-1,3-Dichloropropene	ND	1.0		µg/Kg	1	5/29/2025 10:58 PM
trans-1,4-Dichloro-2-butene	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Trichloroethene	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
Trichlorofluoromethane	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
Trichlorotrifluoroethane	ND	2.0		µg/Kg	1	5/29/2025 10:58 PM
Vinyl acetate	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
Vinyl chloride	ND	5.0		µg/Kg	1	5/29/2025 10:58 PM
Xylenes, Total	ND	7.0		µg/Kg	1	5/29/2025 10:58 PM
Surr: 4-Bromofluorobenzene	101	79-119		%Rec	1	5/29/2025 10:58 PM
Surr: Dibromofluoromethane	99.9	78-119		%Rec	1	5/29/2025 10:58 PM
Surr: Toluene-d8	102	85-116		%Rec	1	5/29/2025 10:58 PM

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60805

Sample ID:	2505249-006AMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	µg/Kg	Prep Date:	5/29/2025	RunNo:	145216
Client ID:	Crumb Rubber InfilMS1	Batch ID:	60805	TestNo:	SW8260D	SW5035		Analysis Date:	5/29/2025	SeqNo:	2792064
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	7.8	1.0	10.00	0	78.2	78	125				
1,1,1-Trichloroethane	8.8	1.0	10.00	0	88.4	73	130				
1,1,2,2-Tetrachloroethane	9.1	5.0	10.00	0	90.9	70	124				
1,1,2-Trichloroethane	9.9	1.0	10.00	0	98.7	78	121				
1,1-Dichloroethane	11	1.0	10.00	0	107	76	125				
1,1-Dichloroethene	10	1.0	10.00	0	101	70	131				
1,1-Dichloropropene	10	1.0	10.00	0	105	76	125				
1,2,3-Trichlorobenzene	9.5	5.0	10.00	0	94.6	66	130				
1,2,3-Trichloropropane	9.5	5.0	10.00	0	95.4	73	125				
1,2,3-Trimethylbenzene	11	5.0	10.00	0	111	82	118				
1,2,4-Trichlorobenzene	10	5.0	10.00	0	104	67	129				
1,2,4-Trimethylbenzene	11	1.0	10.00	1.430	94.0	75	123				
1,2-Dibromo-3-chloropropane	10	5.0	10.00	0	102	61	132				
1,2-Dibromoethane	8.8	2.0	10.00	0	87.7	78	122				
1,2-Dichlorobenzene	9.8	5.0	10.00	0	97.7	78	121				
1,2-Dichloroethane	9.7	1.0	10.00	0	97.2	73	128				
1,2-Dichloroethene, Total	20	2.0	20.00	0	102	74	125				
1,2-Dichloropropane	10	2.0	10.00	0	99.9	76	123				
1,3,5-Trichlorobenzene	12	2.0	10.00	0	115	71	128				
1,3,5-Trimethylbenzene	11	5.0	10.00	0	109	73	124				
1,3-Dichlorobenzene	9.6	1.0	10.00	0	96.2	77	121				
1,3-Dichloropropane	9.8	2.0	10.00	0	97.9	77	121				
1,4-Dichlorobenzene	9.6	2.0	10.00	0	95.8	75	120				
2,2-Dichloropropane	8.0	2.0	10.00	0	80.4	67	133				
2-Chloroethyl vinyl ether	11	10	10.00	0	106	43	149				
2-Chlorotoluene	10	1.0	10.00	0	103	75	122				
2-Hexanone	9.7	5.0	10.00	0	97.1	53	145				
2-Methylnaphthalene	16	10	10.00	11.14	46.5	50	150				S
2-Nitropropane	11	5.0	10.00	0	113	47	150				
4-Chlorotoluene	9.9	1.0	10.00	0	98.6	72	124				

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60805

Sample ID:	2505249-006AMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	µg/Kg	Prep Date:	5/29/2025	RunNo:	145216
Client ID:	Crumb Rubber InfilMS1	Batch ID:	60805	TestNo:	SW8260D	SW5035		Analysis Date:	5/29/2025	SeqNo:	2792064
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Isopropyltoluene	10	1.0	10.00	0	104	73	127				
4-Methyl-2-pentanone	98	2.0	10.00	88.04	101	65	135				
Acetone	14	5.0	10.00	3.790	105	36	164				
Acrolein	ND	20	10.00	0	60.0	47	155				
Acrylonitrile	10	2.0	10.00	0	102	65	134				
Benzene	11	1.0	10.00	0	109	77	121				
Bromobenzene	9.5	2.0	10.00	0	94.6	78	121				
Bromochloromethane	10	5.0	10.00	0	105	78	125				
Bromodichloromethane	7.2	1.0	10.00	0	72.0	75	127				S
Bromoform	8.4	2.0	10.00	0	83.5	67	132				
Bromomethane	14	10	10.00	0	142	53	143				
Carbon disulfide	9.6	2.0	10.00	3.610	59.9	63	132				S
Carbon tetrachloride	7.6	1.0	10.00	0	76.2	70	135				
Chlorobenzene	9.6	1.0	10.00	0	95.7	79	120				
Chloroethane	ND	10	10.00	0	99.9	59	139				
Chloroform	10	1.0	10.00	0	104	78	123				
Chloromethane	13	2.0	10.00	0	128	50	136				
cis-1,2-Dichloroethene	9.8	5.0	10.00	0	97.7	77	123				
cis-1,3-Dichloropropene	7.2	1.0	10.00	0	72.3	74	126				S
Cyclohexane	26	5.0	10.00	3.390	229	67	131				S
Dibromochloromethane	7.4	2.0	10.00	0	73.9	74	126				S
Dibromomethane	8.8	2.0	10.00	0	87.6	78	125				
Dichlorodifluoromethane	18	5.0	10.00	0	179	29	149				S
Diethyl ether	9.3	1.0	10.00	0	93.0	71	129				
Ethyl methacrylate	9.1	2.0	10.00	0	90.7	69	129				
Ethyl methyl ketone	ND	20	10.00	0	106	51	148				
Ethyl tert-Butyl ether	11	2.0	10.00	0	106	72	126				
Ethylbenzene	10	1.0	10.00	0	104	76	122				
Hexachlorobutadiene	15	2.0	10.00	0	153	61	135				S
Hexachloroethane	11	2.0	10.00	0	109	72	133				

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60805

Sample ID:	2505249-006AMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	µg/Kg	Prep Date:	5/29/2025	RunNo:	145216
Client ID:	Crumb Rubber InfilMS1	Batch ID:	60805	TestNo:	SW8260D	SW5035		Analysis Date:	5/29/2025	SeqNo:	2792064
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Isopropyl ether	9.9	1.0	10.00	0	99.2	69	127				
Isopropylbenzene	11	1.0	10.00	0	106	68	134				
m,p-Xylene	25	2.0	20.00	4.520	101	77	124				
Methyl Acetate	15	5.0	10.00	3.930	108	53	144				
Methyl Iodide	ND	20	10.00	0	48.9	71	131				S
Methyl tert-butyl ether	9.9	2.0	10.00	0	99.1	73	125				
Methylcyclohexane	12	2.0	10.00	1.290	108	66	133				
Methylene chloride	11	5.0	10.00	0	106	70	128				
n-Butylbenzene	12	1.0	10.00	0	117	70	128				
n-Propylbenzene	10	1.0	10.00	0	104	73	125				
Naphthalene	13	5.0	10.00	4.880	79.0	62	129				
o-Xylene	11	5.0	10.00	0	109	77	123				
sec-Butylbenzene	11	2.0	10.00	0	105	73	126				
Styrene	10	1.0	10.00	1.010	91.6	76	124				
t-Butyl alcohol	80	50	50.00	0	160	68	133				Sm
tert-Amyl Methyl Ether	11	2.0	10.00	0	105	73	126				
tert-Butylbenzene	9.7	1.0	10.00	0	97.1	73	125				
Tetrachloroethene	9.0	5.0	10.00	0	89.6	73	128				
Toluene	11	1.0	10.00	0.8800	98.1	77	121				
trans-1,2-Dichloroethylene	11	1.0	10.00	0	106	74	125				
trans-1,3-Dichloropropene	6.8	1.0	10.00	0	68.2	71	130				S
trans-1,4-Dichloro-2-butene	9.8	2.0	10.00	0	97.7	62	136				
Trichloroethene	9.9	5.0	10.00	0	99.1	77	123				
Trichlorofluoromethane	9.4	5.0	10.00	0	93.5	62	140				
Trichlorotrifluoroethane	10	2.0	10.00	0	101	66	136				
Vinyl acetate	5.6	5.0	10.00	0	56.1	50	151				
Vinyl chloride	12	5.0	10.00	0	123	56	135				
Xylenes, Total	36	7.0	30.00	4.520	104	78	124				
Surr: 4-Bromofluorobenzene	61		60.00		102	79	119				
Surr: Dibromofluoromethane	63		60.00		106	78	119				

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60805

Sample ID:	2505249-006AMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	µg/Kg	Prep Date:	5/29/2025	RunNo:	145216
Client ID:	Crumb Rubber InfilMS1	Batch ID:	60805	TestNo:	SW8260D	SW5035		Analysis Date:	5/29/2025	SeqNo:	2792064
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Toluene-d8	61		60.00		101	85	116				

Sample ID:	2505249-006AMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	µg/Kg	Prep Date:	5/29/2025	RunNo:	145216
Client ID:	Crumb Rubber InfilSD1	Batch ID:	60805	TestNo:	SW8260D	SW5035		Analysis Date:	5/29/2025	SeqNo:	2792065
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	7.8	1.0	10.00	0	78.5	78	125	7.820	0.383	25	
1,1,1-Trichloroethane	8.8	1.0	10.00	0	88.1	73	130	8.840	0.340	25	
1,1,2,2-Tetrachloroethane	9.4	5.0	10.00	0	94.5	70	124	9.090	3.88	25	
1,1,2-Trichloroethane	9.8	1.0	10.00	0	97.6	78	121	9.870	1.12	25	
1,1-Dichloroethane	11	1.0	10.00	0	110	76	125	10.68	3.41	25	
1,1-Dichloroethene	10	1.0	10.00	0	101	70	131	10.06	0.199	25	
1,1-Dichloropropene	11	1.0	10.00	0	106	76	125	10.48	1.61	25	
1,2,3-Trichlorobenzene	9.3	5.0	10.00	0	93.4	66	130	9.460	1.28	25	
1,2,3-Trichloropropane	9.9	5.0	10.00	0	98.7	73	125	9.540	3.40	25	
1,2,3-Trimethylbenzene	11	5.0	10.00	0	114	82	118	11.09	2.84	25	
1,2,4-Trichlorobenzene	11	5.0	10.00	0	108	67	129	10.40	3.96	25	
1,2,4-Trimethylbenzene	11	1.0	10.00	1.430	93.1	75	123	10.83	0.834	25	
1,2-Dibromo-3-chloropropane	9.7	5.0	10.00	0	97.2	61	132	10.24	5.21	25	
1,2-Dibromoethane	9.2	2.0	10.00	0	91.6	78	122	8.770	4.35	25	
1,2-Dichlorobenzene	9.8	5.0	10.00	0	98.4	78	121	9.770	0.714	25	
1,2-Dichloroethane	11	1.0	10.00	0	106	73	128	9.720	8.28	25	
1,2-Dichloroethene, Total	21	2.0	20.00	0	104	74	125	20.38	2.18	25	
1,2-Dichloropropane	10	2.0	10.00	0	100	76	123	9.990	0.400	25	
1,3,5-Trichlorobenzene	12	2.0	10.00	0	121	71	125	11.53	4.91	25	
1,3,5-Trimethylbenzene	11	5.0	10.00	0	109	73	124	10.90	0.183	25	
1,3-Dichlorobenzene	9.9	1.0	10.00	0	98.9	77	121	9.620	2.77	25	
1,3-Dichloropropane	10	2.0	10.00	0	101	77	121	9.790	2.82	25	
1,4-Dichlorobenzene	9.8	2.0	10.00	0	97.8	75	120	9.580	2.07	25	
2,2-Dichloropropane	8.0	2.0	10.00	0	79.9	67	133	8.040	0.624	25	
2-Chloroethyl vinyl ether	11	10	10.00	0	114	43	149	10.62	7.52	25	

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60805

Sample ID:	2505249-006AMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	µg/Kg	Prep Date:	5/29/2025	RunNo:	145216
Client ID:	Crumb Rubber InfliSD1	Batch ID:	60805	TestNo:	SW8260D	SW5035		Analysis Date:	5/29/2025	SeqNo:	2792065
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chlorotoluene	10	1.0	10.00	0	102	75	122	10.30	1.27	25	
2-Hexanone	10	5.0	10.00	0	101	53	145	9.710	3.94	25	
2-Methylnaphthalene	17	10	10.00	11.14	54.6	50	150	15.79	5.00	25	
2-Nitropropane	12	5.0	10.00	0	116	47	150	11.31	2.62	25	
4-Chlorotoluene	9.9	1.0	10.00	0	99.3	72	124	9.860	0.707	25	
4-Isopropyltoluene	11	1.0	10.00	0	106	73	127	10.44	1.52	25	
4-Methyl-2-pentanone	100	2.0	10.00	88.04	150	65	135	98.15	4.82	25	S
Acetone	15	5.0	10.00	3.790	107	36	164	14.31	1.39	25	
Acrolein	ND	20	10.00	0	64.2	47	155	0	0	25	
Acrylonitrile	11	2.0	10.00	0	113	65	134	10.22	10.1	25	
Benzene	11	1.0	10.00	0	112	77	121	10.86	2.72	25	
Bromobenzene	9.9	2.0	10.00	0	99.2	78	121	9.460	4.75	25	
Bromochloromethane	11	5.0	10.00	0	106	78	125	10.48	0.855	25	
Bromodichloromethane	7.5	1.0	10.00	0	74.8	75	127	7.200	3.81	25	S
Bromoform	8.4	2.0	10.00	0	84.4	67	132	8.350	1.07	25	
Bromomethane	15	10	10.00	0	148	53	143	14.17	4.42	25	S
Carbon disulfide	9.9	2.0	10.00	3.610	63.2	63	132	9.600	3.38	25	
Carbon tetrachloride	8.1	1.0	10.00	0	80.9	70	135	7.620	5.98	25	
Chlorobenzene	9.8	1.0	10.00	0	97.5	79	120	9.570	1.86	25	
Chloroethane	ND	10	10.00	0	83.6	59	139	0	0	25	
Chloroform	10	1.0	10.00	0	104	78	123	10.38	0.289	25	
Chloromethane	13	2.0	10.00	0	126	50	136	12.77	1.58	25	
cis-1,2-Dichloroethene	10	5.0	10.00	0	101	77	123	9.770	3.62	25	
cis-1,3-Dichloropropene	7.4	1.0	10.00	0	73.7	74	126	7.230	1.92	25	S
Cyclohexane	27	5.0	10.00	3.390	235	67	131	26.30	2.22	25	S
Dibromochloromethane	7.5	2.0	10.00	0	74.9	74	126	7.390	1.34	25	
Dibromomethane	9.1	2.0	10.00	0	91.3	78	125	8.760	4.14	25	
Dichlorodifluoromethane	18	5.0	10.00	0	180	29	149	17.91	0.723	25	S
Diethyl ether	8.8	1.0	10.00	0	87.6	71	129	9.300	5.98	25	
Ethyl methacrylate	9.4	2.0	10.00	0	94.5	69	129	9.070	4.10	25	

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60805

Sample ID:	2505249-006AMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	µg/Kg	Prep Date:	5/29/2025	RunNo:	145216
Client ID:	Crumb Rubber InfilSD1	Batch ID:	60805	TestNo:	SW8260D	SW5035		Analysis Date:	5/29/2025	SeqNo:	2792065
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Ethyl methyl ketone	ND	20	10.00	0	111	51	148	0	0	25	
Ethyl tert-Butyl ether	11	2.0	10.00	0	113	72	126	10.63	6.11	25	
Ethylbenzene	10	1.0	10.00	0	105	76	122	10.38	0.863	25	
Hexachlorobutadiene	16	2.0	10.00	0	158	61	135	15.29	3.34	25	S
Hexachloroethane	11	2.0	10.00	0	112	72	133	10.93	2.53	25	
Isopropyl ether	10	1.0	10.00	0	101	69	127	9.920	2.19	25	
Isopropylbenzene	11	1.0	10.00	0	107	68	134	10.55	1.32	25	
m,p-Xylene	25	2.0	20.00	4.520	102	77	124	24.79	0.282	25	
Methyl Acetate	16	5.0	10.00	3.930	118	53	144	14.73	6.44	25	
Methyl Iodide	ND	20	10.00	0	64.7	71	131	0	0	25	RS
Methyl tert-butyl ether	11	2.0	10.00	0	106	73	125	9.910	7.01	25	
Methylcyclohexane	12	2.0	10.00	1.290	111	66	133	12.09	2.45	25	
Methylene chloride	11	5.0	10.00	0	107	70	128	10.57	1.13	25	
n-Butylbenzene	12	1.0	10.00	0	118	70	128	11.71	0.850	25	
n-Propylbenzene	11	1.0	10.00	0	105	73	125	10.40	1.34	25	
Naphthalene	13	5.0	10.00	4.880	84.6	62	129	12.78	4.29	25	
o-Xylene	11	5.0	10.00	0	108	77	123	10.86	0.0921	25	
sec-Butylbenzene	11	2.0	10.00	0	106	73	126	10.51	1.32	25	
Styrene	10	1.0	10.00	1.010	92.9	76	124	10.17	1.27	25	
t-Butyl alcohol	70	50	50.00	0	140	68	133	80.02	13.4	25	S
tert-Amyl Methyl Ether	11	2.0	10.00	0	111	73	126	10.54	5.09	25	
tert-Butylbenzene	10	1.0	10.00	0	99.8	73	125	9.710	2.74	25	
Tetrachloroethene	8.4	5.0	10.00	0	84.3	73	128	8.960	6.10	25	
Toluene	11	1.0	10.00	0.8800	99.5	77	121	10.69	1.30	25	
trans-1,2-Dichloroethylene	11	1.0	10.00	0	107	74	125	10.61	0.845	25	
trans-1,3-Dichloropropene	7.2	1.0	10.00	0	71.6	71	130	6.820	4.86	25	
trans-1,4-Dichloro-2-butene	9.6	2.0	10.00	0	95.7	62	136	9.770	2.07	25	
Trichloroethene	9.7	5.0	10.00	0	96.7	77	123	9.910	2.45	25	
Trichlorofluoromethane	9.2	5.0	10.00	0	92.1	62	140	9.350	1.51	25	
Trichlorotrifluoroethane	10	2.0	10.00	0	103	66	136	10.12	1.76	25	

Client: Sprinturf
Project: Additional testing requested for turf colors (5) and crumb rubber (1)
Batch ID: 60805

Sample ID:	2505249-006AMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	µg/Kg	Prep Date:	5/29/2025	RunNo:	145216
Client ID:	Crumb Rubber InfilSD1	Batch ID:	60805	TestNo:	SW8260D	SW5035		Analysis Date:	5/29/2025	SeqNo:	2792065
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Vinyl acetate	5.6	5.0	10.00	0	56.3	50	151	5.610	0.356	25	
Vinyl chloride	13	5.0	10.00	0	131	56	135	12.32	5.91	25	
Xylenes, Total	36	7.0	30.00	4.520	104	78	124	35.65	0.168	25	
Surr: 4-Bromofluorobenzene	62		60.00		103	79	119		0	25	
Surr: Dibromofluoromethane	63		60.00		106	78	119		0	25	
Surr: Toluene-d8	61		60.00		102	85	116		0	25	

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60842

Sample ID:	MB-60842	Samp Type:	MBLK	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	6/5/2025	RunNo:	145295
Client ID:	PBS	Batch ID:	60842	TestNo:	SW8270C	SW3550C		Analysis Date:	6/9/2025	SeqNo:	2793432

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	160									
1,2-Dichlorobenzene	ND	160									
1,3-Dichlorobenzene	ND	160									
1,4-Dichlorobenzene	ND	160									
2,4,5-Trichlorophenol	ND	160									
2,4,6-Trichlorophenol	ND	160									
2,4-Dichlorophenol	ND	160									
2,4-Dimethylphenol	ND	160									
2,4-Dinitrophenol	ND	830									
2,4-Dinitrotoluene	ND	160									
2,6-Dichlorophenol	ND	160									
2,6-Dinitrotoluene	ND	160									
2-Chloronaphthalene	ND	160									
2-Chlorophenol	ND	160									
2-Methyl-4,6-dinitrophenol	ND	160									
2-Methylnaphthalene	ND	160									
2-Methylphenol	ND	160									
2-Nitroaniline	ND	160									
2-Nitrophenol	ND	160									
3,3'-Dichlorobenzidine	ND	830									
3-Nitroaniline	ND	160									
4-Bromophenyl phenyl ether	ND	160									
4-Chloro-3-methylphenol	ND	160									
4-Chloroaniline	ND	160									
4-Chlorophenyl phenyl ether	ND	160									
4-Nitroaniline	ND	320									
4-Nitrophenol	ND	830									
Acenaphthene	ND	160									
Acenaphthylene	ND	160									
Aniline	ND	160									
Anthracene	ND	160									

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60842

Sample ID:	MB-60842	Samp Type:	MBLK	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	6/5/2025	RunNo:	145295
Client ID:	PBS	Batch ID:	60842	TestNo:	SW8270C	SW3550C		Analysis Date:	6/9/2025	SeqNo:	2793432
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzidine	ND	830									
Benzo (g,h,l) perylene	ND	160									
Benzo(a)anthracene	ND	160									
Benzo(a)pyrene	ND	160									
Benzo(b)fluoranthene	ND	160									
Benzo(k)fluoranthene	ND	160									
Benzoic acid	ND	830									
Benzyl alcohol	ND	160									
Bis(2-chloroethoxy)methane	ND	160									
Bis(2-chloroethyl) ether	ND	160									
Bis(2-chloroisopropyl) ether	ND	160									
Bis(2-ethylhexyl) phthalate	ND	160									
Butyl benzyl phthalate	ND	160									
Carbazole	ND	160									
Chrysene	ND	160									
Di-n-butyl phthalate	ND	160									
Di-n-octyl phthalate	ND	160									
Dibenzo(a,h)anthracene	ND	160									
Dibenzofuran	ND	160									
Diethyl phthalate	ND	160									
Dimethyl phthalate	ND	160									
Fluoranthene	ND	160									
Fluorene	ND	160									
Hexachlorobenzene	ND	160									
Hexachlorobutadiene	ND	160									
Hexachlorocyclopentadiene	ND	160									
Hexachloroethane	ND	160									
Indeno(1,2,3-cd)pyrene	ND	160									
Isophorone	ND	160									
M,P-Cresol	ND	320									
N-Nitrosodi-n-propylamine	ND	160									

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60842

Sample ID:	MB-60842	Samp Type:	MBLK	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	6/5/2025	RunNo:	145295
Client ID:	PBS	Batch ID:	60842	TestNo:	SW8270C	SW3550C		Analysis Date:	6/9/2025	SeqNo:	2793432
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual

N-Nitrosodiethylamine	ND	160									
N-Nitrosodimethylamine	ND	160									
N-Nitrosodiphenylamine	ND	160									
Naphthalene	ND	160									
Nitrobenzene	ND	160									
Pentachlorophenol	ND	160									
Phenanthrene	ND	160									
Phenol	ND	160									
Pyrene	ND	160									
Pyridine	ND	160									
Surr: 2,4,6-Tribromophenol	530		831.9		63.4	39	132				
Surr: 2-Fluorobiphenyl	670		831.9		80.0	44	115				
Surr: 2-Fluorophenol	600		831.9		72.7	35	115				
Surr: Nitrobenzene-d5	680		831.9		81.4	37	122				
Surr: Phenol-d5	680		831.9		81.5	33	122				
Surr: Terphenyl-d14	760		831.9		91.4	54	127				

Sample ID:	LCS-60842	Samp Type:	LCS	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	6/5/2025	RunNo:	145295
Client ID:	LCSS	Batch ID:	60842	TestNo:	SW8270C	SW3550C		Analysis Date:	6/9/2025	SeqNo:	2793433
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	620	160	666.2	0	93.3	34	118				
1,2-Dichlorobenzene	620	160	666.2	0	92.9	33	117				
1,3-Dichlorobenzene	600	160	666.2	0	89.9	30	115				
1,4-Dichlorobenzene	600	160	666.2	0	89.9	31	115				
2,4,5-Trichlorophenol	650	160	666.2	0	97.2	41	124				m
2,4,6-Trichlorophenol	650	160	666.2	0	96.8	39	126				
2,4-Dichlorophenol	660	160	666.2	0	99.2	40	122				
2,4-Dimethylphenol	710	160	666.2	0	106	30	127				
2,4-Dinitrophenol	1300	830	1666	0	75.6	50	130				
2,4-Dinitrotoluene	700	160	666.2	0	106	48	126				

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60842

Sample ID:	LCS-60842	Samp Type:	LCS	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	6/5/2025	RunNo:	145295
Client ID:	LCSS	Batch ID:	60842	TestNo:	SW8270C	SW3550C		Analysis Date:	6/9/2025	SeqNo:	2793433
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,6-Dichlorophenol	620	160	666.2	0	93.7	41	117				
2,6-Dinitrotoluene	750	160	666.2	0	113	46	124				
2-Chloronaphthalene	660	160	666.2	0	98.6	41	114				
2-Chlorophenol	640	160	666.2	0	95.8	34	121				
2-Methyl-4,6-dinitrophenol	560	160	666.2	0	84.8	29	132				
2-Methylnaphthalene	660	160	666.2	0	99.3	38	122				
2-Methylphenol	700	160	666.2	0	104	32	122				
2-Nitroaniline	760	160	666.2	0	114	44	127				
2-Nitrophenol	640	160	666.2	0	96.2	36	123				
3,3'-Dichlorobenzidine	ND	830	666.2	0	115	22	121				
3-Nitroaniline	770	160	666.2	0	115	33	119				
4-Bromophenyl phenyl ether	680	160	666.2	0	102	46	124				
4-Chloro-3-methylphenol	760	160	666.2	0	114	45	122				
4-Chloroaniline	570	160	666.2	0	85.3	17	106				
4-Chlorophenyl phenyl ether	690	160	666.2	0	103	45	121				
4-Nitroaniline	700	320	666.2	0	105	50	130				
4-Nitrophenol	1400	830	1666	0	83.7	30	132				
Acenaphthene	680	160	666.2	0	102	40	123				
Acenaphthylene	700	160	666.2	0	106	32	132				
Aniline	240	160	666.2	0	36.6	50	130				S
Anthracene	720	160	666.2	0	108	47	123				
Benzidine	ND	830	666.2	0	4.70	45	129				S
Benzo (g,h,l) perylene	1000	160	666.2	0	154	43	134				S
Benzo(a)anthracene	720	160	666.2	0	108	49	126				
Benzo(a)pyrene	1100	160	666.2	0	167	45	129				S
Benzo(b)fluoranthene	1100	160	666.2	0	160	45	132				S
Benzo(k)fluoranthene	980	160	666.2	0	147	47	132				Sm
Benzoic acid	ND	830	666.2	0	30.1	36	121				Sm
Benzyl alcohol	710	160	666.2	0	107	29	122				
Bis(2-chloroethoxy)methane	700	160	666.2	0	105	36	121				
Bis(2-chloroethyl) ether	650	160	666.2	0	96.9	31	120				

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60842

Sample ID:	LCS-60842	Samp Type:	LCS	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	6/5/2025	RunNo:	145295
Client ID:	LCSS	Batch ID:	60842	TestNo:	SW8270C	SW3550C		Analysis Date:	6/9/2025	SeqNo:	2793433
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl) ether	730	160	666.2	0	110	33	131				
Bis(2-ethylhexyl) phthalate	830	160	666.2	0	125	51	133				
Butyl benzyl phthalate	820	160	666.2	0	123	48	132				
Carbazole	710	160	666.2	0	106	50	123				
Chrysene	730	160	666.2	0	110	50	124				m
Di-n-butyl phthalate	760	160	666.2	0	115	51	128				
Di-n-octyl phthalate	890	160	666.2	0	133	45	140				
Dibenzo(a,h)anthracene	1100	160	666.2	0	163	45	134				S
Dibenzofuran	690	160	666.2	0	104	44	120				
Diethyl phthalate	680	160	666.2	0	102	50	124				
Dimethyl phthalate	720	160	666.2	0	108	48	124				
Fluoranthene	740	160	666.2	0	111	50	127				
Fluorene	710	160	666.2	0	106	43	125				
Hexachlorobenzene	670	160	666.2	0	101	45	122				
Hexachlorobutadiene	620	160	666.2	0	93.7	32	123				
Hexachlorocyclopentadiene	370	160	666.2	0	54.8	50	130				
Hexachloroethane	620	160	666.2	0	93.1	28	117				
Indeno(1,2,3-cd)pyrene	790	160	666.2	0	119	45	133				
Isophorone	740	160	666.2	0	111	30	122				
M,P-Cresol	1400	320	1332	0	103	42	126				
N-Nitrosodi-n-propylamine	730	160	666.2	0	109	50	130				
N-Nitrosodiethylamine	660	160	666.2	0	98.7	41	124				
N-Nitrosodimethylamine	630	160	666.2	0	94.5	23	120				
N-Nitrosodiphenylamine	680	160	666.2	0	102	38	127				
Naphthalene	600	160	666.2	0	90.2	35	123				m
Nitrobenzene	670	160	666.2	0	100	34	122				
Pentachlorophenol	230	160	666.2	0	34.0	25	133				
Phenanthrene	680	160	666.2	0	103	50	121				
Phenol	670	160	666.2	0	100	34	121				
Pyrene	750	160	666.2	0	112	47	127				
Pyridine	ND	160	666.2	0	20.5	50	130				S

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60842

Sample ID:	LCS-60842	Samp Type:	LCS	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	6/5/2025	RunNo:	145295
Client ID:	LCSS	Batch ID:	60842	TestNo:	SW8270C	SW3550C		Analysis Date:	6/9/2025	SeqNo:	2793433
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual

Surr: 2,4,6-Tribromophenol	810		832.8		97.7	39	132				
Surr: 2-Fluorobiphenyl	800		832.8		96.1	44	115				
Surr: 2-Fluorophenol	750		832.8		89.8	35	115				
Surr: Nitrobenzene-d5	800		832.8		96.4	37	122				
Surr: Phenol-d5	830		832.8		99.6	33	122				
Surr: Terphenyl-d14	930		832.8		112	54	127				

Sample ID:	LCSD-60842	Samp Type:	LCSD	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	6/5/2025	RunNo:	145295
Client ID:	LCSS02	Batch ID:	60842	TestNo:	SW8270C	SW3550C		Analysis Date:	6/9/2025	SeqNo:	2793434
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	620	160	666.2	0	92.5	34	118	621.6	0.807	25	
1,2-Dichlorobenzene	610	160	666.2	0	91.8	33	117	619.3	1.19	25	
1,3-Dichlorobenzene	600	160	666.2	0	90.3	30	115	599.3	0.444	25	
1,4-Dichlorobenzene	600	160	666.2	0	90.2	31	115	598.9	0.389	25	
2,4,5-Trichlorophenol	630	160	666.2	0	95.0	41	124	647.6	2.29	25	
2,4,6-Trichlorophenol	620	160	666.2	0	93.5	39	126	645.2	3.52	25	
2,4-Dichlorophenol	650	160	666.2	0	97.2	40	122	660.9	1.99	25	
2,4-Dimethylphenol	690	160	666.2	0	104	30	127	705.2	2.15	25	
2,4-Dinitrophenol	1200	830	1666	0	69.7	50	130	1259	8.18	25	
2,4-Dinitrotoluene	690	160	666.2	0	103	48	126	704.5	2.63	25	
2,6-Dichlorophenol	620	160	666.2	0	92.7	41	117	624.6	1.13	25	
2,6-Dinitrotoluene	730	160	666.2	0	109	46	124	750.2	2.88	25	
2-Chloronaphthalene	660	160	666.2	0	98.3	41	114	657.2	0.305	25	
2-Chlorophenol	630	160	666.2	0	94.9	34	121	638.2	0.891	25	
2-Methyl-4,6-dinitrophenol	530	160	666.2	0	80.2	29	132	565.0	5.51	25	
2-Methylnaphthalene	660	160	666.2	0	98.5	38	122	661.6	0.758	25	
2-Methylphenol	700	160	666.2	0	105	32	122	695.9	0.668	25	
2-Nitroaniline	750	160	666.2	0	112	44	127	760.5	1.90	25	
2-Nitrophenol	620	160	666.2	0	93.7	36	123	640.9	2.58	25	
3,3'-Dichlorobenzidine	ND	830	666.2	0	110	22	121	0	0	25	

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60842

Sample ID:	LCSD-60842	Samp Type:	LCSD	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	6/5/2025	RunNo:	145295
Client ID:	LCSS02	Batch ID:	60842	TestNo:	SW8270C	SW3550C		Analysis Date:	6/9/2025	SeqNo:	2793434
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
3-Nitroaniline	730	160	666.2	0	110	33	119	769.2	4.74	25	
4-Bromophenyl phenyl ether	680	160	666.2	0	102	46	124	682.5	0.244	25	
4-Chloro-3-methylphenol	730	160	666.2	0	110	45	122	757.2	3.17	25	
4-Chloroaniline	530	160	666.2	0	79.8	17	106	568.6	6.66	25	
4-Chlorophenyl phenyl ether	680	160	666.2	0	102	45	121	688.5	0.923	25	
4-Nitroaniline	680	320	666.2	0	102	50	130	698.9	3.25	25	
4-Nitrophenol	1300	830	1666	0	78.6	30	132	1394	6.24	25	
Acenaphthene	680	160	666.2	0	102	40	123	680.9	0.638	25	
Acenaphthylene	700	160	666.2	0	106	32	132	704.2	0.0947	25	
Aniline	210	160	666.2	0	32.1	50	130	243.8	13.1	25	S
Anthracene	700	160	666.2	0	105	47	123	717.9	2.21	25	
Benzidine	ND	830	666.2	0	4.35	45	129	0	0	25	S
Benzo (g,h,l) perylene	980	160	666.2	0	148	47	132	1023	4.02	25	S
Benzo(a)anthracene	700	160	666.2	0	105	49	126	718.2	2.49	25	m
Benzo(a)pyrene	1100	160	666.2	0	162	45	132	1110	2.77	25	S
Benzo(b)fluoranthene	980	160	666.2	0	147	43	134	1067	8.63	25	Sm
Benzo(k)fluoranthene	880	160	666.2	0	133	29	122	978.0	10.1	25	S
Benzoic acid	ND	830	666.2	0	25.3	36	121	0	0	25	Sm
Benzyl alcohol	690	160	666.2	0	104	31	120	710.5	2.95	25	
Bis(2-chloroethoxy)methane	700	160	666.2	0	104	33	131	702.5	0.953	25	
Bis(2-chloroethyl) ether	650	160	666.2	0	97.4	51	133	645.9	0.514	25	
Bis(2-chloroisopropyl) ether	790	160	666.2	0	119	48	132	731.5	7.87	25	
Bis(2-ethylhexyl) phthalate	820	160	666.2	0	124	50	123	834.4	1.37	25	Sm
Butyl benzyl phthalate	800	160	666.2	0	120	50	124	817.1	2.27	25	
Carbazole	700	160	666.2	0	105	51	128	708.2	1.23	25	
Chrysene	710	160	666.2	0	107	45	140	733.2	2.76	25	m
Di-n-butyl phthalate	740	160	666.2	0	111	50	134	763.8	3.01	25	
Di-n-octyl phthalate	860	160	666.2	0	129	44	120	889.4	3.16	25	S
Dibenzo(a,h)anthracene	1000	160	666.2	0	155	45	124	1083	4.72	25	S
Dibenzofuran	680	160	666.2	0	101	48	124	689.9	2.00	25	
Diethyl phthalate	670	160	666.2	0	100	50	127	679.9	1.68	25	

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: 60842

Sample ID:	LCSD-60842	Samp Type:	LCSD	Test Code:	SW_8270S	Units:	µg/Kg	Prep Date:	6/5/2025	RunNo:	145295
Client ID:	LCSS02	Batch ID:	60842	TestNo:	SW8270C	SW3550C		Analysis Date:	6/9/2025	SeqNo:	2793434
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	700	160	666.2	0	105	43	125	720.9	2.76	25	
Fluoranthene	720	160	666.2	0	108	45	122	741.2	3.29	25	
Fluorene	710	160	666.2	0	106	32	123	708.5	0	25	
Hexachlorobenzene	670	160	666.2	0	100	50	130	671.2	0.248	25	
Hexachlorobutadiene	620	160	666.2	0	92.8	28	117	624.6	1.02	25	
Hexachlorocyclopentadiene	380	160	666.2	0	57.1	45	133	365.4	4.11	25	
Hexachloroethane	610	160	666.2	0	92.1	30	122	620.3	1.08	25	
Indeno(1,2,3-cd)pyrene	760	160	666.2	0	114	41	124	794.1	4.02	25	
Isophorone	730	160	666.2	0	109	23	120	742.5	2.13	25	
M,P-Cresol	1300	320	1332	0	100	42	126	1366	2.04	25	
N-Nitrosodi-n-propylamine	720	160	666.2	0	107	34	122	729.2	1.84	25	
N-Nitrosodiethylamine	640	160	666.2	0	96.7	38	127	657.6	2.00	25	
N-Nitrosodimethylamine	630	160	666.2	0	94.1	50	130	629.9	0.424	25	
N-Nitrosodiphenylamine	670	160	666.2	0	99.8	35	123	676.5	1.69	25	
Naphthalene	600	160	666.2	0	90.3	25	133	600.9	0.166	25	m
Nitrobenzene	660	160	666.2	0	99.6	50	121	667.6	0.550	25	
Pentachlorophenol	200	160	666.2	0	29.8	34	121	226.5	13.0	25	S
Phenanthrene	660	160	666.2	0	99.7	47	127	684.2	2.91	25	
Phenol	660	160	666.2	0	98.6	50	130	669.2	1.86	25	
Pyrene	730	160	666.2	0	110	50	130	749.5	2.16	25	
Pyridine	ND	160	666.2	0	21.8	50	130	0	0	25	S
Surr: 2,4,6-Tribromophenol	760		832.8		91.4	39	132		0	25	
Surr: 2-Fluorobiphenyl	770		832.8		92.1	44	115		0	25	
Surr: 2-Fluorophenol	720		832.8		86.7	35	115		0	25	
Surr: Nitrobenzene-d5	770		832.8		93.0	37	122		0	25	
Surr: Phenol-d5	810		832.8		96.7	33	122		0	25	
Surr: Terphenyl-d14	890		832.8		107	54	127		0	25	

Client: Sprinturf

Project: Additional testing requested for turf colors (5) and crumb rubber (1)

Batch ID: R145216

Sample ID:	VOA11B MBLK 052	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	%Rec	Prep Date:	5/29/2025	RunNo:	145216	
Client ID:	PBS	Batch ID:	R145216	TestNo:	SW8260D			Analysis Date:	5/29/2025	SeqNo:	2792053	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene	51			50.00		102	79	119				
Surr: Dibromofluoromethane	50			50.00		99.6	78	119				
Surr: Toluene-d8	50			50.00		99.4	85	116				

Sample ID:	VOA11B LCS 0529	Samp Type:	LCS	Test Code:	SW_8260S	Units:	%Rec	Prep Date:	5/29/2025	RunNo:	145216	
Client ID:	LCSS	Batch ID:	R145216	TestNo:	SW8260D			Analysis Date:	5/29/2025	SeqNo:	2792054	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene	60			60.00		101	79	119				
Surr: Dibromofluoromethane	62			60.00		104	78	119				
Surr: Toluene-d8	59			60.00		99.1	85	116				

Sample ID:	VOA11B LCSD 0529	Samp Type:	LCSD	Test Code:	SW_8260S	Units:	%Rec	Prep Date:	5/29/2025	RunNo:	145216	
Client ID:	LCSS02	Batch ID:	R145216	TestNo:	SW8260D			Analysis Date:	5/29/2025	SeqNo:	2792055	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene	61			60.00		102	79	119		0	25	
Surr: Dibromofluoromethane	62			60.00		104	78	119		0	25	
Surr: Toluene-d8	59			60.00		98.6	85	116		0	25	

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCS/D: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

L+: LCS Failed High

L-: LCS Failed Low

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

QCS: Quality Control Standard to verify linearity of calibration curve above highest calibration standard.

PDS: Post Digestion Spike.

PL: Permit limit; Not included on all reports. Used primarily for wastewater discharge permits.

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported

RL: Reporting Limit: See PQL

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*7X: Reported value exceeds the maximum allowed concentration by regulation or permit

B/v: Analyte detected in the associated Method Blank at a concentration > RL.

E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.

H/@: Holding time for preparation or analysis has been exceeded

J/n: Analyte concentration is reported, and is less than the PQL and greater than or equal to the established MDL. Greater uncertainty is associated with this result and data reported is estimated. These analytes are not routinely reviewed nor narrated as to their potential for being laboratory artifacts.

m/M: Manual Integration used to determine area response

ND/t: Analyte concentration is less than the Reporting Limit.

P: Second column RPD exceeds 40%

R: % RPD exceeds control limits

S/Q: % REC exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL.

\: Laboratory Control Sample (LCS) recovery outside of acceptable range

/: Matrix Spike (MS) recovery outside of acceptable range

Y: CCV % REC exceeds control limits

Z: ICV % REC exceeds control limits



Arlington HS – CAM 17 Test Results JJA Sports:NET (No Exceptions Taken)
April 07, 2025 Tests of Synthetic Fiber

Please see the below chart summarizing the metals data from Pace Analytical.

Metal	Detection Limit (mg/kg)	FG/LG Results (mg/kg)	White Results (mg/kg)	Gray Results (mg/kg)	Vegas Gold Results (mg/kg)	Maroon Results (mg/kg)	Result
Antimony	500	ND	5.4	1.8	ND	9.2	PASS
Arsenic	500	ND	ND	ND	ND	ND	PASS
Barium	10000	1.5	0.82	1.2	0.74	0.9	PASS
Beryllium	75	ND	ND	ND	ND	ND	PASS
Cadmium	100	ND	ND	ND	ND	ND	PASS
Chromium	2500	7.2	16.9	11.1	9.9	17.6	PASS
Cobalt	8000	ND	ND	ND	ND	ND	PASS
Copper	2500	1.5	0.56	ND	ND	0.73	PASS
Lead	1000	2.9	ND	0.8	0.56	ND	PASS
Molybdenum	3500	ND	ND	ND	ND	ND	PASS
Nickel	2000	20.3	ND	ND	ND	ND	PASS
Selenium	100	ND	ND	ND	ND	ND	PASS
Silver	500	ND	ND	ND	ND	ND	PASS
Thallium	700	ND	ND	ND	ND	ND	PASS
Vanadium	2400	ND	ND	ND	ND	ND	PASS
Zinc	5000	477	ND	ND	ND	ND	PASS



Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

April 07, 2025

Caitlin Olive
Sprinturf
146 Fairchild Street
Charleston, SC 29492

RE: Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

Dear Caitlin Olive:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

This report was revised April 7, 2025, to report reanalysis results for 6010 and 7471 on all samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10727316001	FG/LG Blend	Solid		03/14/25 11:50
10727316002	White	Solid		03/14/25 11:50
10727316003	Gray	Solid		03/14/25 11:50
10727316004	Vegas Gold	Solid		03/14/25 11:50
10727316005	Maroon	Solid		03/14/25 11:50

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10727316001	FG/LG Blend	EPA 6010D	DM, IP	16	PASI-M
		EPA 7471B	LMW	1	PASI-M
		EPA 1633	AJG	65	PASI-M
10727316002	White	EPA 6010D	DM, IP	16	PASI-M
		EPA 7471B	LMW	1	PASI-M
		EPA 1633	AJG	65	PASI-M
10727316003	Gray	EPA 6010D	DM, IP	16	PASI-M
		EPA 7471B	LMW	1	PASI-M
		EPA 1633	AJG	65	PASI-M
10727316004	Vegas Gold	EPA 6010D	IP	16	PASI-M
		EPA 7471B	LMW	1	PASI-M
		EPA 1633	AJG	65	PASI-M
10727316005	Maroon	EPA 6010D	IP	16	PASI-M
		EPA 7471B	LMW	1	PASI-M
		EPA 1633	AJG	65	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

Sample: FG/LG Blend Lab ID: 10727316001 Collected: Received: 03/14/25 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Initial Volume/Weight: 1.001 g Final Volume/Weight: 50 mL								
Pace Analytical Services - Minneapolis								
Antimony	ND	mg/kg	1.0	1	03/24/25 07:43	03/26/25 12:51	7440-36-0	
Arsenic	ND	mg/kg	1.0	1	03/24/25 07:43	03/26/25 12:51	7440-38-2	
Barium	1.5	mg/kg	0.50	1	03/24/25 07:43	03/26/25 12:51	7440-39-3	
Beryllium	ND	mg/kg	0.25	1	03/24/25 07:43	03/26/25 12:51	7440-41-7	
Cadmium	ND	mg/kg	0.15	1	03/24/25 07:43	03/26/25 12:51	7440-43-9	
Chromium	7.2	mg/kg	0.50	1	03/24/25 07:43	03/26/25 12:51	7440-47-3	
Cobalt	ND	mg/kg	0.50	1	03/24/25 07:43	03/26/25 12:51	7440-48-4	
Copper	1.5	mg/kg	0.50	1	03/24/25 07:43	03/26/25 12:51	7440-50-8	
Lead	2.9	mg/kg	0.50	1	03/24/25 07:43	03/26/25 12:51	7439-92-1	
Molybdenum	ND	mg/kg	0.75	1	03/24/25 07:43	03/26/25 12:51	7439-98-7	
Nickel	20.3	mg/kg	1.0	1	03/24/25 07:43	03/26/25 12:51	7440-02-0	
Selenium	ND	mg/kg	1.0	1	03/24/25 07:43	03/26/25 12:51	7782-49-2	
Silver	ND	mg/kg	0.50	1	03/24/25 07:43	03/26/25 12:51	7440-22-4	
Thallium	ND	mg/kg	1.0	1	03/24/25 07:43	03/26/25 12:51	7440-28-0	
Vanadium	ND	mg/kg	0.75	1	03/24/25 07:43	03/26/25 12:51	7440-62-2	
Zinc	477	mg/kg	2.0	1	03/24/25 07:43	03/26/25 12:51	7440-66-6	

6010D MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3050B

Initial Volume/Weight: 1.051 g Final Volume/Weight: 50 mL

Pace Analytical Services - Minneapolis

Antimony	10.0	mg/kg	0.95	1	04/04/25 08:47	04/04/25 13:12	7440-36-0	
Arsenic	ND	mg/kg	0.95	1	04/04/25 08:47	04/04/25 13:12	7440-38-2	
Barium	1.7	mg/kg	0.48	1	04/04/25 08:47	04/04/25 13:12	7440-39-3	
Beryllium	ND	mg/kg	0.24	1	04/04/25 08:47	04/04/25 13:12	7440-41-7	
Cadmium	ND	mg/kg	0.14	1	04/04/25 08:47	04/04/25 13:12	7440-43-9	
Chromium	31.5	mg/kg	0.48	1	04/04/25 08:47	04/04/25 13:12	7440-47-3	
Cobalt	ND	mg/kg	0.48	1	04/04/25 08:47	04/04/25 13:12	7440-48-4	
Copper	3.6	mg/kg	0.48	1	04/04/25 08:47	04/04/25 13:12	7440-50-8	
Lead	1.4	mg/kg	0.48	1	04/04/25 08:47	04/04/25 13:12	7439-92-1	
Molybdenum	ND	mg/kg	0.71	1	04/04/25 08:47	04/04/25 13:12	7439-98-7	
Nickel	9.5	mg/kg	0.95	1	04/04/25 08:47	04/04/25 13:12	7440-02-0	
Selenium	ND	mg/kg	1.9	2	04/04/25 08:47	04/04/25 15:42	7782-49-2	D3
Silver	ND	mg/kg	0.48	1	04/04/25 08:47	04/04/25 13:12	7440-22-4	
Thallium	ND	mg/kg	0.95	1	04/04/25 08:47	04/04/25 13:37	7440-28-0	
Vanadium	ND	mg/kg	0.71	1	04/04/25 08:47	04/04/25 13:12	7440-62-2	
Zinc	428	mg/kg	1.9	1	04/04/25 08:47	04/04/25 13:12	7440-66-6	

7471B Mercury

Analytical Method: EPA 7471B Preparation Method: EPA 7471B

Initial Volume/Weight: 0.331 g Final Volume/Weight: 30 mL

Pace Analytical Services - Minneapolis

Mercury	0.047	mg/kg	0.018	1	03/21/25 17:02	03/27/25 11:13	7439-97-6	
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

Sample: FG/LG Blend Lab ID: 10727316001 Collected: Received: 03/14/25 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471B Mercury								
Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Initial Volume/Weight: 0.346 g Final Volume/Weight: 30 mL								
Pace Analytical Services - Minneapolis								
Mercury	ND	mg/kg	0.017	1	04/01/25 13:15	04/04/25 08:59	7439-97-6	
EPA 1633F Soil								
Analytical Method: EPA 1633 Preparation Method: EPA 1633								
Initial Volume/Weight: 1.395 g Final Volume/Weight: 4 mL								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:22	763051-92-9	
3:3 FTCA	ND	ug/kg	3.6	1	03/18/25 13:50	03/19/25 11:22	356-02-5	
4:2 FTS	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:22	757124-72-4	
5:3 FTCA	ND	ug/kg	17.9	1	03/18/25 13:50	03/19/25 11:22	914637-49-3	
6:2 FTS	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:22	27619-97-2	
7:3 FTCA	ND	ug/kg	17.9	1	03/18/25 13:50	03/19/25 11:22	812-70-4	
8:2 FTS	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:22	39108-34-4	
9CI-PF3ONS	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:22	756426-58-1	
ADONA	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:22	919005-14-4	
HFPO-DA	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:22	13252-13-6	
NEtFOSAA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	2991-50-6	
NEtFOSA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	4151-50-2	
NEtFOSE	ND	ug/kg	7.2	1	03/18/25 13:50	03/19/25 11:22	1691-99-2	
NFDHA	ND	ug/kg	1.4	1	03/18/25 13:50	03/19/25 11:22	151772-58-6	
NMeFOSAA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	2355-31-9	
NMeFOSA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	31506-32-8	
NMeFOSE	ND	ug/kg	7.2	1	03/18/25 13:50	03/19/25 11:22	24448-09-7	
PFBS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	375-73-5	
PFDA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	335-76-2	
PFHxA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	307-24-4	
PFBA	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:22	375-22-4	
PFDS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	335-77-3	
PFDoS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	79780-39-5	
PFEESA	ND	ug/kg	1.4	1	03/18/25 13:50	03/19/25 11:22	113507-82-7	
PFHpS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	375-92-8	
PFMBA	ND	ug/kg	1.4	1	03/18/25 13:50	03/19/25 11:22	863090-89-5	
PFMPA	ND	ug/kg	1.4	1	03/18/25 13:50	03/19/25 11:22	377-73-1	
PFNS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	68259-12-1	
PFOSA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	754-91-6	
PFPeA	ND	ug/kg	1.4	1	03/18/25 13:50	03/19/25 11:22	2706-90-3	
PFPeS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	2706-91-4	
PFDoA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	307-55-1	
PFHpA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	375-85-9	
PFHxS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	355-46-4	
PFNA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	375-95-1	
PFOS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	1763-23-1	
PFOA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	335-67-1	
PFTeDA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	376-06-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

Sample: FG/LG Blend **Lab ID:** 10727316001 **Collected:** **Received:** 03/14/25 11:50 **Matrix:** Solid
Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil								
Analytical Method: EPA 1633 Preparation Method: EPA 1633								
Initial Volume/Weight: 1.395 g Final Volume/Weight: 4 mL								
Pace Analytical Services - Minneapolis								
PFTTrDA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	72629-94-8	
PFUnA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:22	2058-94-8	
Surrogates								
13C2-PFDoA (S)	58	%.	40-130	1	03/18/25 13:50	03/19/25 11:22		
13C3HFPO-DA (S)	73	%.	40-130	1	03/18/25 13:50	03/19/25 11:22		
13C3-PFBS (S)	82	%.	40-135	1	03/18/25 13:50	03/19/25 11:22		
13C3-PFHxS (S)	85	%.	40-130	1	03/18/25 13:50	03/19/25 11:22		
13C4-PFBA (S)	81	%.	8-130	1	03/18/25 13:50	03/19/25 11:22		
13C4-PFHpA (S)	85	%.	40-130	1	03/18/25 13:50	03/19/25 11:22		
13C5-PFHxA (S)	83	%.	40-130	1	03/18/25 13:50	03/19/25 11:22		
13C5-PFPeA (S)	81	%.	35-130	1	03/18/25 13:50	03/19/25 11:22		
13C6-PFDA (S)	85	%.	40-130	1	03/18/25 13:50	03/19/25 11:22		
13C8-PFOA (S)	87	%.	40-130	1	03/18/25 13:50	03/19/25 11:22		
13C8-PFOS (S)	81	%.	40-130	1	03/18/25 13:50	03/19/25 11:22		
13C8-PFOSA (S)	111	%.	40-130	1	03/18/25 13:50	03/19/25 11:22		
13C9-PFNA (S)	85	%.	40-130	1	03/18/25 13:50	03/19/25 11:22		
d3-MeFOSAA (S)	72	%.	40-135	1	03/18/25 13:50	03/19/25 11:22		
d3-NMeFOSA (S)	72	%.	10-130	1	03/18/25 13:50	03/19/25 11:22		
d5-EtFOSAA (S)	105	%.	40-150	1	03/18/25 13:50	03/19/25 11:22		
d5-NEtFOSA (S)	85	%.	10-130	1	03/18/25 13:50	03/19/25 11:22		
d7-NMeFOSE (S)	86	%.	20-130	1	03/18/25 13:50	03/19/25 11:22		
d9-NEtFOSE (S)	62	%.	15-130	1	03/18/25 13:50	03/19/25 11:22		
13C2-PFTA (S)	69	%.	20-130	1	03/18/25 13:50	03/19/25 11:22		
13C7-PFUDa (S)	84	%.	40-130	1	03/18/25 13:50	03/19/25 11:22		
13C24:2FTS (S)	61	%.	40-135	1	03/18/25 13:50	03/19/25 11:22		
13C26:2FTS (S)	89	%.	40-215	1	03/18/25 13:50	03/19/25 11:22		
13C28:2FTS (S)	72	%.	40-275	1	03/18/25 13:50	03/19/25 11:22		
13C3-PFPrA (S)	60	%.	8-130	1	03/18/25 13:50	03/19/25 11:22		

Sample: White **Lab ID:** 10727316002 **Collected:** **Received:** 03/14/25 11:50 **Matrix:** Solid
Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Initial Volume/Weight: 1.046 g Final Volume/Weight: 50 mL								
Pace Analytical Services - Minneapolis								
Antimony	5.4	mg/kg	0.96	1	04/04/25 08:47	04/04/25 13:16	7440-36-0	
Arsenic	ND	mg/kg	0.96	1	04/04/25 08:47	04/04/25 13:16	7440-38-2	
Barium	0.82	mg/kg	0.48	1	04/04/25 08:47	04/04/25 13:16	7440-39-3	
Beryllium	ND	mg/kg	0.24	1	04/04/25 08:47	04/04/25 13:16	7440-41-7	
Cadmium	ND	mg/kg	0.14	1	04/04/25 08:47	04/04/25 13:16	7440-43-9	
Chromium	16.9	mg/kg	0.48	1	04/04/25 08:47	04/04/25 13:16	7440-47-3	

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

Sample: White Lab ID: 10727316002 Collected: Received: 03/14/25 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Initial Volume/Weight: 1.046 g Final Volume/Weight: 50 mL								
Pace Analytical Services - Minneapolis								
Cobalt	ND	mg/kg	0.48	1	04/04/25 08:47	04/04/25 13:16	7440-48-4	
Copper	0.56	mg/kg	0.48	1	04/04/25 08:47	04/04/25 13:16	7440-50-8	
Lead	ND	mg/kg	0.48	1	04/04/25 08:47	04/04/25 13:16	7439-92-1	
Molybdenum	ND	mg/kg	0.72	1	04/04/25 08:47	04/04/25 13:16	7439-98-7	
Nickel	ND	mg/kg	0.96	1	04/04/25 08:47	04/04/25 13:16	7440-02-0	
Selenium	ND	mg/kg	0.96	1	04/04/25 08:47	04/04/25 13:16	7782-49-2	
Silver	ND	mg/kg	0.48	1	04/04/25 08:47	04/04/25 13:16	7440-22-4	
Thallium	ND	mg/kg	0.96	1	04/04/25 08:47	04/04/25 13:39	7440-28-0	
Vanadium	ND	mg/kg	0.72	1	04/04/25 08:47	04/04/25 13:16	7440-62-2	
Zinc	ND	mg/kg	1.9	1	04/04/25 08:47	04/04/25 13:16	7440-66-6	

6010D MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3050B

Initial Volume/Weight: 1.049 g Final Volume/Weight: 50 mL

Pace Analytical Services - Minneapolis

Antimony	1.2	mg/kg	0.95	1	03/24/25 07:43	03/26/25 12:52	7440-36-0	
Arsenic	ND	mg/kg	0.95	1	03/24/25 07:43	03/26/25 12:52	7440-38-2	
Barium	0.86	mg/kg	0.48	1	03/24/25 07:43	03/26/25 12:52	7440-39-3	
Beryllium	ND	mg/kg	0.24	1	03/24/25 07:43	03/26/25 12:52	7440-41-7	
Cadmium	ND	mg/kg	0.14	1	03/24/25 07:43	03/26/25 12:52	7440-43-9	
Chromium	8.6	mg/kg	0.48	1	03/24/25 07:43	03/26/25 12:52	7440-47-3	
Cobalt	ND	mg/kg	0.48	1	03/24/25 07:43	03/26/25 12:52	7440-48-4	
Copper	0.61	mg/kg	0.48	1	03/24/25 07:43	03/26/25 12:52	7440-50-8	
Lead	1.5	mg/kg	0.48	1	03/24/25 07:43	03/26/25 12:52	7439-92-1	
Molybdenum	ND	mg/kg	0.71	1	03/24/25 07:43	03/26/25 12:52	7439-98-7	
Nickel	ND	mg/kg	0.95	1	03/24/25 07:43	03/26/25 12:52	7440-02-0	
Selenium	ND	mg/kg	0.95	1	03/24/25 07:43	03/26/25 12:52	7782-49-2	
Silver	ND	mg/kg	0.48	1	03/24/25 07:43	03/26/25 12:52	7440-22-4	
Thallium	ND	mg/kg	0.95	1	03/24/25 07:43	03/26/25 12:52	7440-28-0	
Vanadium	ND	mg/kg	0.71	1	03/24/25 07:43	03/26/25 12:52	7440-62-2	
Zinc	ND	mg/kg	1.9	1	03/24/25 07:43	03/26/25 12:52	7440-66-6	

7471B Mercury

Analytical Method: EPA 7471B Preparation Method: EPA 7471B

Initial Volume/Weight: 0.341 g Final Volume/Weight: 30 mL

Pace Analytical Services - Minneapolis

Mercury	ND	mg/kg	0.018	1	03/21/25 17:02	03/27/25 11:16	7439-97-6	
Mercury	ND	mg/kg	0.018	1	04/01/25 13:15	04/04/25 09:01	7439-97-6	

EPA 1633F Soil

Analytical Method: EPA 1633 Preparation Method: EPA 1633

Initial Volume/Weight: 1.387 g Final Volume/Weight: 4 mL

Pace Analytical Services - Minneapolis

11CI-PF3OUdS	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:31	763051-92-9	
3:3 FTCA	ND	ug/kg	3.6	1	03/18/25 13:50	03/19/25 11:31	356-02-5	
4:2 FTS	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:31	757124-72-4	

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

Sample: White Lab ID: 10727316002 Collected: Received: 03/14/25 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil Analytical Method: EPA 1633 Preparation Method: EPA 1633 Initial Volume/Weight: 1.387 g Final Volume/Weight: 4 mL Pace Analytical Services - Minneapolis								
5:3 FTCA	ND	ug/kg	18.0	1	03/18/25 13:50	03/19/25 11:31	914637-49-3	
6:2 FTS	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:31	27619-97-2	
7:3 FTCA	ND	ug/kg	18.0	1	03/18/25 13:50	03/19/25 11:31	812-70-4	
8:2 FTS	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:31	39108-34-4	
9CI-PF3ONS	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:31	756426-58-1	
ADONA	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:31	919005-14-4	
HFPO-DA	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:31	13252-13-6	
NEtFOSAA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	2991-50-6	
NEtFOSA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	4151-50-2	
NEtFOSE	ND	ug/kg	7.2	1	03/18/25 13:50	03/19/25 11:31	1691-99-2	
NFDHA	ND	ug/kg	1.4	1	03/18/25 13:50	03/19/25 11:31	151772-58-6	
NMeFOSAA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	2355-31-9	
NMeFOSA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	31506-32-8	
NMeFOSE	ND	ug/kg	7.2	1	03/18/25 13:50	03/19/25 11:31	24448-09-7	
PFBS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	375-73-5	
PFDA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	335-76-2	
PFHxA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	307-24-4	
PFBA	ND	ug/kg	2.9	1	03/18/25 13:50	03/19/25 11:31	375-22-4	
PFDS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	335-77-3	
PFDoS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	79780-39-5	
PFEESA	ND	ug/kg	1.4	1	03/18/25 13:50	03/19/25 11:31	113507-82-7	
PFHpS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	375-92-8	
PFMBA	ND	ug/kg	1.4	1	03/18/25 13:50	03/19/25 11:31	863090-89-5	
PFMPA	ND	ug/kg	1.4	1	03/18/25 13:50	03/19/25 11:31	377-73-1	
PFNS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	68259-12-1	
PFOSA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	754-91-6	
PFPeA	ND	ug/kg	1.4	1	03/18/25 13:50	03/19/25 11:31	2706-90-3	
PFPeS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	2706-91-4	
PFDoA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	307-55-1	
PFHpA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	375-85-9	
PFHxS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	355-46-4	
PFNA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	375-95-1	
PFOS	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	1763-23-1	
PFOA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	335-67-1	
PFTeDA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	376-06-7	
PFTrDA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	72629-94-8	
PFUnA	ND	ug/kg	0.72	1	03/18/25 13:50	03/19/25 11:31	2058-94-8	
Surrogates								
13C2-PFDoA (S)	92	%	40-130	1	03/18/25 13:50	03/19/25 11:31		
13C3HFPO-DA (S)	75	%	40-130	1	03/18/25 13:50	03/19/25 11:31		
13C3-PFBS (S)	86	%	40-135	1	03/18/25 13:50	03/19/25 11:31		
13C3-PFHxS (S)	94	%	40-130	1	03/18/25 13:50	03/19/25 11:31		
13C4-PFBA (S)	82	%	8-130	1	03/18/25 13:50	03/19/25 11:31		
13C4-PFHpA (S)	95	%	40-130	1	03/18/25 13:50	03/19/25 11:31		

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

Sample: White Lab ID: 10727316002 Collected: Received: 03/14/25 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil								
Analytical Method: EPA 1633 Preparation Method: EPA 1633								
Initial Volume/Weight: 1.387 g Final Volume/Weight: 4 mL								
Pace Analytical Services - Minneapolis								
Surrogates								
13C5-PFHxA (S)	94	%.	40-130	1	03/18/25 13:50	03/19/25 11:31		
13C5-PFPeA (S)	89	%.	35-130	1	03/18/25 13:50	03/19/25 11:31		
13C6-PFDA (S)	101	%.	40-130	1	03/18/25 13:50	03/19/25 11:31		
13C8-PFOA (S)	99	%.	40-130	1	03/18/25 13:50	03/19/25 11:31		
13C8-PFOS (S)	86	%.	40-130	1	03/18/25 13:50	03/19/25 11:31		
13C8-PFOSA (S)	117	%.	40-130	1	03/18/25 13:50	03/19/25 11:31		
13C9-PFNA (S)	89	%.	40-130	1	03/18/25 13:50	03/19/25 11:31		
d3-MeFOSAA (S)	86	%.	40-135	1	03/18/25 13:50	03/19/25 11:31		
d3-NMeFOSA (S)	82	%.	10-130	1	03/18/25 13:50	03/19/25 11:31		
d5-EtFOSAA (S)	120	%.	40-150	1	03/18/25 13:50	03/19/25 11:31		
d5-NEtFOSA (S)	89	%.	10-130	1	03/18/25 13:50	03/19/25 11:31		
d7-NMeFOSE (S)	93	%.	20-130	1	03/18/25 13:50	03/19/25 11:31		
d9-NEtFOSE (S)	67	%.	15-130	1	03/18/25 13:50	03/19/25 11:31		
13C2-PFTA (S)	84	%.	20-130	1	03/18/25 13:50	03/19/25 11:31		
13C7-PFUDa (S)	96	%.	40-130	1	03/18/25 13:50	03/19/25 11:31		
13C24:2FTS (S)	69	%.	40-135	1	03/18/25 13:50	03/19/25 11:31		
13C26:2FTS (S)	99	%.	40-215	1	03/18/25 13:50	03/19/25 11:31		
13C28:2FTS (S)	86	%.	40-275	1	03/18/25 13:50	03/19/25 11:31		
13C3-PFPrA (S)	60	%.	8-130	1	03/18/25 13:50	03/19/25 11:31		

Sample: Gray Lab ID: 10727316003 Collected: Received: 03/14/25 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Initial Volume/Weight: 1.02 g Final Volume/Weight: 50 mL								
Pace Analytical Services - Minneapolis								
Antimony	1.8	mg/kg	0.98	1	03/24/25 07:43	03/26/25 12:54	7440-36-0	
Arsenic	ND	mg/kg	0.98	1	03/24/25 07:43	03/26/25 12:54	7440-38-2	
Barium	1.2	mg/kg	0.49	1	03/24/25 07:43	03/26/25 12:54	7440-39-3	
Beryllium	ND	mg/kg	0.25	1	03/24/25 07:43	03/26/25 12:54	7440-41-7	
Cadmium	ND	mg/kg	0.15	1	03/24/25 07:43	03/26/25 12:54	7440-43-9	
Chromium	11.1	mg/kg	0.49	1	03/24/25 07:43	03/26/25 12:54	7440-47-3	
Cobalt	ND	mg/kg	0.49	1	03/24/25 07:43	03/26/25 12:54	7440-48-4	
Copper	ND	mg/kg	0.49	1	03/24/25 07:43	03/26/25 12:54	7440-50-8	
Lead	0.80	mg/kg	0.49	1	03/24/25 07:43	03/26/25 12:54	7439-92-1	
Molybdenum	ND	mg/kg	0.74	1	03/24/25 07:43	03/26/25 12:54	7439-98-7	
Nickel	ND	mg/kg	0.98	1	03/24/25 07:43	03/26/25 12:54	7440-02-0	
Selenium	ND	mg/kg	0.98	1	03/24/25 07:43	03/26/25 12:54	7782-49-2	
Silver	ND	mg/kg	0.49	1	03/24/25 07:43	03/26/25 12:54	7440-22-4	
Thallium	ND	mg/kg	0.98	1	03/24/25 07:43	03/26/25 12:54	7440-28-0	

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

Sample: Gray **Lab ID:** 10727316003 **Collected:** **Received:** 03/14/25 11:50 **Matrix:** Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Initial Volume/Weight: 1.02 g Final Volume/Weight: 50 mL								
Pace Analytical Services - Minneapolis								
Vanadium	ND	mg/kg	0.74	1	03/24/25 07:43	03/26/25 12:54	7440-62-2	
Zinc	5.0	mg/kg	2.0	1	03/24/25 07:43	03/26/25 12:54	7440-66-6	

6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Initial Volume/Weight: 1.085 g Final Volume/Weight: 50 mL								
Pace Analytical Services - Minneapolis								
Antimony	8.5	mg/kg	0.92	1	04/04/25 08:47	04/04/25 13:22	7440-36-0	
Arsenic	ND	mg/kg	0.92	1	04/04/25 08:47	04/04/25 13:22	7440-38-2	
Barium	3.0	mg/kg	0.46	1	04/04/25 08:47	04/04/25 13:22	7440-39-3	
Beryllium	ND	mg/kg	0.23	1	04/04/25 08:47	04/04/25 13:22	7440-41-7	
Cadmium	ND	mg/kg	0.14	1	04/04/25 08:47	04/04/25 13:22	7440-43-9	
Chromium	182	mg/kg	0.46	1	04/04/25 08:47	04/04/25 13:22	7440-47-3	
Cobalt	0.54	mg/kg	0.46	1	04/04/25 08:47	04/04/25 13:22	7440-48-4	
Copper	7.0	mg/kg	0.46	1	04/04/25 08:47	04/04/25 13:22	7440-50-8	
Lead	ND	mg/kg	0.46	1	04/04/25 08:47	04/04/25 13:22	7439-92-1	
Molybdenum	8.5	mg/kg	0.69	1	04/04/25 08:47	04/04/25 13:22	7439-98-7	
Nickel	5.2	mg/kg	0.92	1	04/04/25 08:47	04/04/25 13:22	7440-02-0	
Selenium	ND	mg/kg	0.92	1	04/04/25 08:47	04/04/25 13:22	7782-49-2	
Silver	ND	mg/kg	0.46	1	04/04/25 08:47	04/04/25 13:22	7440-22-4	
Thallium	ND	mg/kg	0.92	1	04/04/25 08:47	04/04/25 13:41	7440-28-0	
Vanadium	0.73	mg/kg	0.69	1	04/04/25 08:47	04/04/25 13:22	7440-62-2	
Zinc	14.9	mg/kg	1.8	1	04/04/25 08:47	04/04/25 13:22	7440-66-6	

7471B Mercury								
Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Initial Volume/Weight: 0.32 g Final Volume/Weight: 30 mL								
Pace Analytical Services - Minneapolis								
Mercury	ND	mg/kg	0.019	1	04/01/25 13:15	04/04/25 09:06	7439-97-6	

7471B Mercury								
Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Initial Volume/Weight: 0.342 g Final Volume/Weight: 30 mL								
Pace Analytical Services - Minneapolis								
Mercury	ND	mg/kg	0.018	1	03/21/25 17:02	03/27/25 11:17	7439-97-6	

EPA 1633F Soil								
Analytical Method: EPA 1633 Preparation Method: EPA 1633								
Initial Volume/Weight: 1.265 g Final Volume/Weight: 4 mL								
Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:40	763051-92-9	
3:3 FTCA	ND	ug/kg	4.0	1	03/18/25 13:50	03/19/25 11:40	356-02-5	
4:2 FTS	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:40	757124-72-4	
5:3 FTCA	ND	ug/kg	19.8	1	03/18/25 13:50	03/19/25 11:40	914637-49-3	
6:2 FTS	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:40	27619-97-2	
7:3 FTCA	ND	ug/kg	19.8	1	03/18/25 13:50	03/19/25 11:40	812-70-4	
8:2 FTS	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:40	39108-34-4	

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

Sample: Gray Lab ID: 10727316003 Collected: Received: 03/14/25 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil								
Analytical Method: EPA 1633 Preparation Method: EPA 1633								
Initial Volume/Weight: 1.265 g Final Volume/Weight: 4 mL								
Pace Analytical Services - Minneapolis								
9CI-PF3ONS	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:40	756426-58-1	
ADONA	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:40	919005-14-4	
HFPO-DA	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:40	13252-13-6	
NEtFOSAA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	2991-50-6	
NEtFOSA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	4151-50-2	
NEtFOSE	ND	ug/kg	7.9	1	03/18/25 13:50	03/19/25 11:40	1691-99-2	
NFDHA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:40	151772-58-6	
NMeFOSAA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	2355-31-9	
NMeFOSA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	31506-32-8	
NMeFOSE	ND	ug/kg	7.9	1	03/18/25 13:50	03/19/25 11:40	24448-09-7	
PFBS	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	375-73-5	
PFDA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	335-76-2	
PFHxA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	307-24-4	
PFBA	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:40	375-22-4	
PFDS	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	335-77-3	
PFDoS	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	79780-39-5	
PFEESA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:40	113507-82-7	
PFHpS	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	375-92-8	
PFMBA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:40	863090-89-5	
PFMPA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:40	377-73-1	
PFNS	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	68259-12-1	
PFOSA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	754-91-6	
PFPeA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:40	2706-90-3	
PFPeS	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	2706-91-4	
PFDoA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	307-55-1	
PFHpA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	375-85-9	
PFHxS	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	355-46-4	
PFNA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	375-95-1	
PFOS	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	1763-23-1	
PFOA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	335-67-1	
PFTeDA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	376-06-7	
PFTTrDA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	72629-94-8	
PFUnA	ND	ug/kg	0.79	1	03/18/25 13:50	03/19/25 11:40	2058-94-8	
Surrogates								
13C2-PFDoA (S)	111	%.	40-130	1	03/18/25 13:50	03/19/25 11:40		
13C3HFPO-DA (S)	100	%.	40-130	1	03/18/25 13:50	03/19/25 11:40		
13C3-PFBS (S)	117	%.	40-135	1	03/18/25 13:50	03/19/25 11:40		
13C3-PFHxS (S)	122	%.	40-130	1	03/18/25 13:50	03/19/25 11:40		
13C4-PFBA (S)	110	%.	8-130	1	03/18/25 13:50	03/19/25 11:40		
13C4-PFHpA (S)	121	%.	40-130	1	03/18/25 13:50	03/19/25 11:40		
13C5-PFHxA (S)	119	%.	40-130	1	03/18/25 13:50	03/19/25 11:40		
13C5-PFPeA (S)	115	%.	35-130	1	03/18/25 13:50	03/19/25 11:40		
13C6-PFDA (S)	122	%.	40-130	1	03/18/25 13:50	03/19/25 11:40		
13C8-PFOA (S)	126	%.	40-130	1	03/18/25 13:50	03/19/25 11:40		

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

Sample: Gray **Lab ID:** 10727316003 **Collected:** **Received:** 03/14/25 11:50 **Matrix:** Solid
Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil								
Analytical Method: EPA 1633 Preparation Method: EPA 1633								
Initial Volume/Weight: 1.265 g Final Volume/Weight: 4 mL								
Pace Analytical Services - Minneapolis								
Surrogates								
13C8-PFOS (S)	116	%.	40-130	1	03/18/25 13:50	03/19/25 11:40		
13C8-PFOSA (S)	162	%.	40-130	1	03/18/25 13:50	03/19/25 11:40		S3
13C9-PFNA (S)	119	%.	40-130	1	03/18/25 13:50	03/19/25 11:40		
d3-MeFOSAA (S)	107	%.	40-135	1	03/18/25 13:50	03/19/25 11:40		
d3-NMeFOSA (S)	105	%.	10-130	1	03/18/25 13:50	03/19/25 11:40		
d5-EtFOSAA (S)	164	%.	40-150	1	03/18/25 13:50	03/19/25 11:40		S3
d5-NEtFOSA (S)	118	%.	10-130	1	03/18/25 13:50	03/19/25 11:40		
d7-NMeFOSE (S)	126	%.	20-130	1	03/18/25 13:50	03/19/25 11:40		
d9-NEtFOSE (S)	72	%.	15-130	1	03/18/25 13:50	03/19/25 11:40		
13C2-PFTA (S)	107	%.	20-130	1	03/18/25 13:50	03/19/25 11:40		
13C7-PFUDa (S)	120	%.	40-130	1	03/18/25 13:50	03/19/25 11:40		
13C24:2FTS (S)	87	%.	40-135	1	03/18/25 13:50	03/19/25 11:40		
13C26:2FTS (S)	135	%.	40-215	1	03/18/25 13:50	03/19/25 11:40		
13C28:2FTS (S)	126	%.	40-275	1	03/18/25 13:50	03/19/25 11:40		
13C3-PFPrA (S)	76	%.	8-130	1	03/18/25 13:50	03/19/25 11:40		

Sample: Vegas Gold **Lab ID:** 10727316004 **Collected:** **Received:** 03/14/25 11:50 **Matrix:** Solid
Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Initial Volume/Weight: 1.003 g Final Volume/Weight: 50 mL								
Pace Analytical Services - Minneapolis								
Antimony	ND	mg/kg	1.0	1	03/24/25 07:43	03/26/25 12:56	7440-36-0	
Arsenic	ND	mg/kg	1.0	1	03/24/25 07:43	03/26/25 12:56	7440-38-2	
Barium	0.74	mg/kg	0.50	1	03/24/25 07:43	03/26/25 12:56	7440-39-3	
Beryllium	ND	mg/kg	0.25	1	03/24/25 07:43	03/26/25 12:56	7440-41-7	
Cadmium	ND	mg/kg	0.15	1	03/24/25 07:43	03/26/25 12:56	7440-43-9	
Chromium	9.9	mg/kg	0.50	1	03/24/25 07:43	03/26/25 12:56	7440-47-3	
Cobalt	ND	mg/kg	0.50	1	03/24/25 07:43	03/26/25 12:56	7440-48-4	
Copper	ND	mg/kg	0.50	1	03/24/25 07:43	03/26/25 12:56	7440-50-8	
Lead	0.56	mg/kg	0.50	1	03/24/25 07:43	03/26/25 12:56	7439-92-1	
Molybdenum	ND	mg/kg	0.75	1	03/24/25 07:43	03/26/25 12:56	7439-98-7	
Nickel	ND	mg/kg	1.0	1	03/24/25 07:43	03/26/25 12:56	7440-02-0	
Selenium	ND	mg/kg	1.0	1	03/24/25 07:43	03/26/25 12:56	7782-49-2	
Silver	ND	mg/kg	0.50	1	03/24/25 07:43	03/26/25 12:56	7440-22-4	
Thallium	ND	mg/kg	1.0	1	03/24/25 07:43	03/26/25 12:56	7440-28-0	
Vanadium	ND	mg/kg	0.75	1	03/24/25 07:43	03/26/25 12:56	7440-62-2	
Zinc	3.3	mg/kg	2.0	1	03/24/25 07:43	03/26/25 12:56	7440-66-6	

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

Sample: Vegas Gold Lab ID: 10727316004 Collected: Received: 03/14/25 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Initial Volume/Weight: 1.021 g Final Volume/Weight: 50 mL								
Pace Analytical Services - Minneapolis								
Antimony	8.6	mg/kg	0.98	1	04/01/25 14:28	04/02/25 12:12	7440-36-0	
Arsenic	ND	mg/kg	0.98	1	04/01/25 14:28	04/02/25 12:12	7440-38-2	
Barium	0.95	mg/kg	0.49	1	04/01/25 14:28	04/02/25 12:12	7440-39-3	
Beryllium	ND	mg/kg	0.24	1	04/01/25 14:28	04/02/25 12:12	7440-41-7	
Cadmium	ND	mg/kg	0.15	1	04/01/25 14:28	04/02/25 12:12	7440-43-9	
Chromium	20.8	mg/kg	0.49	1	04/01/25 14:28	04/02/25 12:12	7440-47-3	
Cobalt	ND	mg/kg	0.49	1	04/01/25 14:28	04/02/25 12:12	7440-48-4	
Copper	1.6	mg/kg	0.49	1	04/01/25 14:28	04/02/25 12:12	7440-50-8	
Lead	ND	mg/kg	0.49	1	04/01/25 14:28	04/02/25 12:12	7439-92-1	
Molybdenum	ND	mg/kg	0.73	1	04/01/25 14:28	04/02/25 12:12	7439-98-7	
Nickel	1.7	mg/kg	0.98	1	04/01/25 14:28	04/02/25 12:12	7440-02-0	
Selenium	ND	mg/kg	0.98	1	04/01/25 14:28	04/02/25 12:12	7782-49-2	
Silver	ND	mg/kg	0.49	1	04/01/25 14:28	04/02/25 12:12	7440-22-4	
Thallium	ND	mg/kg	0.98	1	04/01/25 14:28	04/02/25 12:12	7440-28-0	
Vanadium	ND	mg/kg	0.73	1	04/01/25 14:28	04/02/25 12:12	7440-62-2	
Zinc	15.6	mg/kg	2.0	1	04/01/25 14:28	04/02/25 12:12	7440-66-6	

7471B Mercury

Analytical Method: EPA 7471B Preparation Method: EPA 7471B

Initial Volume/Weight: 0.327 g Final Volume/Weight: 30 mL

Pace Analytical Services - Minneapolis

Mercury	ND	mg/kg	0.018	1	04/01/25 13:15	04/04/25 09:07	7439-97-6	
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7471B Mercury

Analytical Method: EPA 7471B Preparation Method: EPA 7471B

Initial Volume/Weight: 0.336 g Final Volume/Weight: 30 mL

Pace Analytical Services - Minneapolis

Mercury	0.037	mg/kg	0.018	1	03/21/25 17:02	03/27/25 11:19	7439-97-6	
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EPA 1633F Soil

Analytical Method: EPA 1633 Preparation Method: EPA 1633

Initial Volume/Weight: 1.277 g Final Volume/Weight: 4 mL

Pace Analytical Services - Minneapolis

11CI-PF3OUdS	ND	ug/kg	3.1	1	03/18/25 13:50	03/19/25 11:49	763051-92-9	
3:3 FTCA	ND	ug/kg	3.9	1	03/18/25 13:50	03/19/25 11:49	356-02-5	
4:2 FTS	ND	ug/kg	3.1	1	03/18/25 13:50	03/19/25 11:49	757124-72-4	
5:3 FTCA	ND	ug/kg	19.6	1	03/18/25 13:50	03/19/25 11:49	914637-49-3	
6:2 FTS	ND	ug/kg	3.1	1	03/18/25 13:50	03/19/25 11:49	27619-97-2	
7:3 FTCA	ND	ug/kg	19.6	1	03/18/25 13:50	03/19/25 11:49	812-70-4	
8:2 FTS	ND	ug/kg	3.1	1	03/18/25 13:50	03/19/25 11:49	39108-34-4	
9CI-PF3ONS	ND	ug/kg	3.1	1	03/18/25 13:50	03/19/25 11:49	756426-58-1	
ADONA	ND	ug/kg	3.1	1	03/18/25 13:50	03/19/25 11:49	919005-14-4	
HFPO-DA	ND	ug/kg	3.1	1	03/18/25 13:50	03/19/25 11:49	13252-13-6	
NEtFOSAA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	2991-50-6	
NEtFOSA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	4151-50-2	
NEtFOSE	ND	ug/kg	7.8	1	03/18/25 13:50	03/19/25 11:49	1691-99-2	

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

Sample: Vegas Gold **Lab ID: 10727316004** Collected: Received: 03/14/25 11:50 Matrix: Solid
Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil								
Analytical Method: EPA 1633 Preparation Method: EPA 1633								
Initial Volume/Weight: 1.277 g Final Volume/Weight: 4 mL								
Pace Analytical Services - Minneapolis								
NFDHA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:49	151772-58-6	
NMeFOSAA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	2355-31-9	
NMeFOSA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	31506-32-8	
NMeFOSE	ND	ug/kg	7.8	1	03/18/25 13:50	03/19/25 11:49	24448-09-7	
PFBS	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	375-73-5	
PFDA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	335-76-2	
PFHxA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	307-24-4	
PFBA	ND	ug/kg	3.1	1	03/18/25 13:50	03/19/25 11:49	375-22-4	
PFDS	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	335-77-3	
PFDoS	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	79780-39-5	
PFEESA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:49	113507-82-7	
PFHpS	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	375-92-8	
PFMBA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:49	863090-89-5	
PFMPA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:49	377-73-1	
PFNS	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	68259-12-1	
PFOSA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	754-91-6	
PFPeA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:49	2706-90-3	
PFPeS	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	2706-91-4	
PFDoA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	307-55-1	
PFHpA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	375-85-9	
PFHxS	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	355-46-4	
PFNA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	375-95-1	
PFOS	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	1763-23-1	
PFOA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	335-67-1	
PFTeDA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	376-06-7	
PFTrDA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	72629-94-8	
PFUnA	ND	ug/kg	0.78	1	03/18/25 13:50	03/19/25 11:49	2058-94-8	
Surrogates								
13C2-PFDaA (S)	81	%	40-130	1	03/18/25 13:50	03/19/25 11:49		
13C3HFPO-DA (S)	71	%	40-130	1	03/18/25 13:50	03/19/25 11:49		
13C3-PFBS (S)	83	%	40-135	1	03/18/25 13:50	03/19/25 11:49		
13C3-PFHxS (S)	92	%	40-130	1	03/18/25 13:50	03/19/25 11:49		
13C4-PFBA (S)	81	%	8-130	1	03/18/25 13:50	03/19/25 11:49		
13C4-PFHpA (S)	91	%	40-130	1	03/18/25 13:50	03/19/25 11:49		
13C5-PFHxA (S)	90	%	40-130	1	03/18/25 13:50	03/19/25 11:49		
13C5-PFPeA (S)	84	%	35-130	1	03/18/25 13:50	03/19/25 11:49		
13C6-PFDA (S)	91	%	40-130	1	03/18/25 13:50	03/19/25 11:49		
13C8-PFOA (S)	94	%	40-130	1	03/18/25 13:50	03/19/25 11:49		
13C8-PFOS (S)	90	%	40-130	1	03/18/25 13:50	03/19/25 11:49		
13C8-PFOSA (S)	116	%	40-130	1	03/18/25 13:50	03/19/25 11:49		
13C9-PFNA (S)	88	%	40-130	1	03/18/25 13:50	03/19/25 11:49		
d3-MeFOSAA (S)	85	%	40-135	1	03/18/25 13:50	03/19/25 11:49		
d3-NMeFOSA (S)	75	%	10-130	1	03/18/25 13:50	03/19/25 11:49		
d5-EtFOSAA (S)	112	%	40-150	1	03/18/25 13:50	03/19/25 11:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

Sample: Vegas Gold **Lab ID: 10727316004** Collected: Received: 03/14/25 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil								
Analytical Method: EPA 1633 Preparation Method: EPA 1633								
Initial Volume/Weight: 1.277 g Final Volume/Weight: 4 mL								
Pace Analytical Services - Minneapolis								
Surrogates								
d5-NEtFOSA (S)	88	%.	10-130	1	03/18/25 13:50	03/19/25 11:49		
d7-NMeFOSE (S)	92	%.	20-130	1	03/18/25 13:50	03/19/25 11:49		
d9-NEtFOSE (S)	58	%.	15-130	1	03/18/25 13:50	03/19/25 11:49		
13C2-PFTA (S)	78	%.	20-130	1	03/18/25 13:50	03/19/25 11:49		
13C7-PFUdA (S)	87	%.	40-130	1	03/18/25 13:50	03/19/25 11:49		
13C24:2FTS (S)	65	%.	40-135	1	03/18/25 13:50	03/19/25 11:49		
13C26:2FTS (S)	96	%.	40-215	1	03/18/25 13:50	03/19/25 11:49		
13C28:2FTS (S)	88	%.	40-275	1	03/18/25 13:50	03/19/25 11:49		
13C3-PFPrA (S)	55	%.	8-130	1	03/18/25 13:50	03/19/25 11:49		

Sample: Maroon **Lab ID: 10727316005** Collected: Received: 03/14/25 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Initial Volume/Weight: 1.019 g Final Volume/Weight: 50 mL								
Pace Analytical Services - Minneapolis								
Antimony	9.2	mg/kg	0.98	1	04/01/25 14:28	04/02/25 12:14	7440-36-0	M1
Arsenic	ND	mg/kg	0.98	1	04/01/25 14:28	04/02/25 12:14	7440-38-2	M1
Barium	0.90	mg/kg	0.49	1	04/01/25 14:28	04/02/25 12:14	7440-39-3	M1
Beryllium	ND	mg/kg	0.25	1	04/01/25 14:28	04/02/25 12:14	7440-41-7	M1
Cadmium	ND	mg/kg	0.15	1	04/01/25 14:28	04/02/25 12:14	7440-43-9	M1
Chromium	17.6	mg/kg	0.49	1	04/01/25 14:28	04/02/25 12:14	7440-47-3	M1,R1
Cobalt	ND	mg/kg	0.49	1	04/01/25 14:28	04/02/25 12:14	7440-48-4	M1
Copper	0.73	mg/kg	0.49	1	04/01/25 14:28	04/02/25 12:14	7440-50-8	M1
Lead	ND	mg/kg	0.49	1	04/01/25 14:28	04/02/25 12:14	7439-92-1	M1
Molybdenum	ND	mg/kg	0.74	1	04/01/25 14:28	04/02/25 12:14	7439-98-7	M1
Nickel	ND	mg/kg	0.98	1	04/01/25 14:28	04/02/25 12:14	7440-02-0	M1
Selenium	ND	mg/kg	0.98	1	04/01/25 14:28	04/02/25 12:14	7782-49-2	M1
Silver	ND	mg/kg	0.49	1	04/01/25 14:28	04/02/25 12:14	7440-22-4	M1
Thallium	ND	mg/kg	0.98	1	04/01/25 14:28	04/02/25 12:14	7440-28-0	M1
Vanadium	ND	mg/kg	0.74	1	04/01/25 14:28	04/02/25 12:14	7440-62-2	M1
Zinc	ND	mg/kg	2.0	1	04/01/25 14:28	04/02/25 12:14	7440-66-6	M1

6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B

Initial Volume/Weight: 1.022 g Final Volume/Weight: 50 mL

Pace Analytical Services - Minneapolis

Antimony	1.5	mg/kg	0.98	1	03/24/25 07:43	03/26/25 12:57	7440-36-0	
Arsenic	ND	mg/kg	0.98	1	03/24/25 07:43	03/26/25 12:57	7440-38-2	
Barium	0.89	mg/kg	0.49	1	03/24/25 07:43	03/26/25 12:57	7440-39-3	
Beryllium	ND	mg/kg	0.24	1	03/24/25 07:43	03/26/25 12:57	7440-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

Sample: Maroon Lab ID: 10727316005 Collected: Received: 03/14/25 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Initial Volume/Weight: 1.022 g Final Volume/Weight: 50 mL								
Pace Analytical Services - Minneapolis								
Cadmium	ND	mg/kg	0.15	1	03/24/25 07:43	03/26/25 12:57	7440-43-9	
Chromium	10.8	mg/kg	0.49	1	03/24/25 07:43	03/26/25 12:57	7440-47-3	
Cobalt	ND	mg/kg	0.49	1	03/24/25 07:43	03/26/25 12:57	7440-48-4	
Copper	0.67	mg/kg	0.49	1	03/24/25 07:43	03/26/25 12:57	7440-50-8	
Lead	0.95	mg/kg	0.49	1	03/24/25 07:43	03/26/25 12:57	7439-92-1	
Molybdenum	ND	mg/kg	0.73	1	03/24/25 07:43	03/26/25 12:57	7439-98-7	
Nickel	ND	mg/kg	0.98	1	03/24/25 07:43	03/26/25 12:57	7440-02-0	
Selenium	ND	mg/kg	0.98	1	03/24/25 07:43	03/26/25 12:57	7782-49-2	
Silver	ND	mg/kg	0.49	1	03/24/25 07:43	03/26/25 12:57	7440-22-4	
Thallium	ND	mg/kg	0.98	1	03/24/25 07:43	03/26/25 12:57	7440-28-0	
Vanadium	ND	mg/kg	0.73	1	03/24/25 07:43	03/26/25 12:57	7440-62-2	
Zinc	4.2	mg/kg	2.0	1	03/24/25 07:43	03/26/25 12:57	7440-66-6	

7471B Mercury

Analytical Method: EPA 7471B Preparation Method: EPA 7471B

Initial Volume/Weight: 0.33 g Final Volume/Weight: 30 mL

Pace Analytical Services - Minneapolis

Mercury	0.027	mg/kg	0.018	1	03/21/25 17:02	03/27/25 11:21	7439-97-6	
Mercury	ND	mg/kg	0.018	1	04/01/25 13:15	04/04/25 09:09	7439-97-6	

EPA 1633F Soil

Analytical Method: EPA 1633 Preparation Method: EPA 1633

Initial Volume/Weight: 1.237 g Final Volume/Weight: 4 mL

Pace Analytical Services - Minneapolis

11CI-PF3OUdS	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:58	763051-92-9	
3:3 FTCA	ND	ug/kg	4.0	1	03/18/25 13:50	03/19/25 11:58	356-02-5	
4:2 FTS	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:58	757124-72-4	
5:3 FTCA	ND	ug/kg	20.2	1	03/18/25 13:50	03/19/25 11:58	914637-49-3	
6:2 FTS	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:58	27619-97-2	
7:3 FTCA	ND	ug/kg	20.2	1	03/18/25 13:50	03/19/25 11:58	812-70-4	
8:2 FTS	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:58	39108-34-4	
9CI-PF3ONS	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:58	756426-58-1	
ADONA	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:58	919005-14-4	
HFPO-DA	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:58	13252-13-6	
NEtFOSAA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	2991-50-6	
NEtFOSA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	4151-50-2	
NEtFOSE	ND	ug/kg	8.1	1	03/18/25 13:50	03/19/25 11:58	1691-99-2	
NFDHA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:58	151772-58-6	
NMeFOSAA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	2355-31-9	
NMeFOSA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	31506-32-8	
NMeFOSE	ND	ug/kg	8.1	1	03/18/25 13:50	03/19/25 11:58	24448-09-7	
PFBS	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	375-73-5	
PFDA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	335-76-2	
PFHxA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	307-24-4	
PFBA	ND	ug/kg	3.2	1	03/18/25 13:50	03/19/25 11:58	375-22-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

Sample: Maroon		Lab ID: 10727316005		Collected:		Received: 03/14/25 11:50		Matrix: Solid	
Results reported on a "wet-weight" basis									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

EPA 1633F Soil

Analytical Method: EPA 1633 Preparation Method: EPA 1633

Initial Volume/Weight: 1.237 g Final Volume/Weight: 4 mL

Pace Analytical Services - Minneapolis

PFDS	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	335-77-3	
PFDoS	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	79780-39-5	
PFEESA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:58	113507-82-7	
PFHpS	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	375-92-8	
PFMBA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:58	863090-89-5	
PFMPA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:58	377-73-1	
PFNS	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	68259-12-1	
PFOSA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	754-91-6	
PFPeA	ND	ug/kg	1.6	1	03/18/25 13:50	03/19/25 11:58	2706-90-3	
PFPeS	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	2706-91-4	
PFDoA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	307-55-1	
PFHpA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	375-85-9	
PFHxS	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	355-46-4	
PFNA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	375-95-1	
PFOS	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	1763-23-1	
PFOA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	335-67-1	
PFTeDA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	376-06-7	
PFTrDA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	72629-94-8	
PFUnA	ND	ug/kg	0.81	1	03/18/25 13:50	03/19/25 11:58	2058-94-8	
Surrogates								
13C2-PFDoA (S)	105	%.	40-130	1	03/18/25 13:50	03/19/25 11:58		
13C3HFPO-DA (S)	93	%.	40-130	1	03/18/25 13:50	03/19/25 11:58		
13C3-PFBS (S)	112	%.	40-135	1	03/18/25 13:50	03/19/25 11:58		
13C3-PFHxS (S)	114	%.	40-130	1	03/18/25 13:50	03/19/25 11:58		
13C4-PFBA (S)	106	%.	8-130	1	03/18/25 13:50	03/19/25 11:58		
13C4-PFHpA (S)	117	%.	40-130	1	03/18/25 13:50	03/19/25 11:58		
13C5-PFHxA (S)	119	%.	40-130	1	03/18/25 13:50	03/19/25 11:58		
13C5-PFPeA (S)	114	%.	35-130	1	03/18/25 13:50	03/19/25 11:58		
13C6-PFDA (S)	120	%.	40-130	1	03/18/25 13:50	03/19/25 11:58		
13C8-PFOA (S)	128	%.	40-130	1	03/18/25 13:50	03/19/25 11:58		
13C8-PFOS (S)	109	%.	40-130	1	03/18/25 13:50	03/19/25 11:58		
13C8-PFOSA (S)	157	%.	40-130	1	03/18/25 13:50	03/19/25 11:58		S3
13C9-PFNA (S)	124	%.	40-130	1	03/18/25 13:50	03/19/25 11:58		
d3-MeFOSAA (S)	111	%.	40-135	1	03/18/25 13:50	03/19/25 11:58		
d3-NMeFOSA (S)	105	%.	10-130	1	03/18/25 13:50	03/19/25 11:58		
d5-EtFOSAA (S)	151	%.	40-150	1	03/18/25 13:50	03/19/25 11:58		S3
d5-NEtFOSA (S)	119	%.	10-130	1	03/18/25 13:50	03/19/25 11:58		
d7-NMeFOSE (S)	133	%.	20-130	1	03/18/25 13:50	03/19/25 11:58		S3
d9-NEtFOSE (S)	75	%.	15-130	1	03/18/25 13:50	03/19/25 11:58		
13C2-PFTA (S)	98	%.	20-130	1	03/18/25 13:50	03/19/25 11:58		
13C7-PFUDa (S)	114	%.	40-130	1	03/18/25 13:50	03/19/25 11:58		
13C24:2FTS (S)	87	%.	40-135	1	03/18/25 13:50	03/19/25 11:58		
13C26:2FTS (S)	135	%.	40-215	1	03/18/25 13:50	03/19/25 11:58		
13C28:2FTS (S)	126	%.	40-275	1	03/18/25 13:50	03/19/25 11:58		

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

Sample: Maroon Lab ID: 10727316005 Collected: Received: 03/14/25 11:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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EPA 1633F Soil Analytical Method: EPA 1633 Preparation Method: EPA 1633
Initial Volume/Weight: 1.237 g Final Volume/Weight: 4 mL
Pace Analytical Services - Minneapolis

Surrogates

13C3-PFPrA (S)	69	%.	8-130	1	03/18/25 13:50	03/19/25 11:58		
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REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

QC Batch: 997653

Analysis Method: EPA 7471B

QC Batch Method: EPA 7471B

Analysis Description: 7471B Mercury Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10727316001, 10727316002, 10727316003, 10727316004, 10727316005

METHOD BLANK: 5204806

Matrix: Solid

Associated Lab Samples: 10727316001, 10727316002, 10727316003, 10727316004, 10727316005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.018	03/27/25 10:57	

LABORATORY CONTROL SAMPLE: 5204807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.48	0.47	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	5204808	5204809
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Parameter	Units	10728170003	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike	Spike							
Mercury	mg/kg	0.073	0.56	0.48	0.59	0.50	94	89	80-120	17	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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(612)607-1700

QUALITY CONTROL DATA

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

QC Batch:	999278	Analysis Method:	EPA 7471B
QC Batch Method:	EPA 7471B	Analysis Description:	7471B Mercury Solids
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples: 10727316001, 10727316002, 10727316003, 10727316004, 10727316005			

METHOD BLANK: 5212659 Matrix: Solid
Associated Lab Samples: 10727316001, 10727316002, 10727316003, 10727316004, 10727316005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.019	04/04/25 08:56	

LABORATORY CONTROL SAMPLE: 5212660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.49	0.51	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5212661 5212662

Parameter	Units	10727316002	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result										
Mercury	mg/kg	ND	0.47	0.45	0.46	0.43	98	95	80-120	7	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

QC Batch:	997652	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D Solids
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10727316001, 10727316002, 10727316003, 10727316004, 10727316005		

METHOD BLANK: 5204802 Matrix: Solid
Associated Lab Samples: 10727316001, 10727316002, 10727316003, 10727316004, 10727316005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	0.99	03/26/25 12:31	
Arsenic	mg/kg	ND	0.99	03/26/25 12:31	
Barium	mg/kg	ND	0.49	03/26/25 12:31	
Beryllium	mg/kg	ND	0.25	03/26/25 12:31	
Cadmium	mg/kg	ND	0.15	03/26/25 12:31	
Chromium	mg/kg	ND	0.49	03/26/25 12:31	
Cobalt	mg/kg	ND	0.49	03/26/25 12:31	
Copper	mg/kg	ND	0.49	03/26/25 12:31	
Lead	mg/kg	ND	0.49	03/26/25 12:31	
Molybdenum	mg/kg	ND	0.74	03/26/25 12:31	
Nickel	mg/kg	ND	0.99	03/26/25 12:31	
Selenium	mg/kg	ND	0.99	03/26/25 12:31	
Silver	mg/kg	ND	0.49	03/26/25 12:31	
Thallium	mg/kg	ND	0.99	03/26/25 12:31	
Vanadium	mg/kg	ND	0.74	03/26/25 12:31	
Zinc	mg/kg	ND	2.0	03/26/25 12:31	

LABORATORY CONTROL SAMPLE: 5204803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	46.9	44.1	94	80-120	
Arsenic	mg/kg	46.9	44.1	94	80-120	
Barium	mg/kg	46.9	46.9	100	80-120	
Beryllium	mg/kg	46.9	45.5	97	80-120	
Cadmium	mg/kg	46.9	46.5	99	80-120	
Chromium	mg/kg	46.9	46.7	100	80-120	
Cobalt	mg/kg	46.9	46.1	98	80-120	
Copper	mg/kg	46.9	47.2	100	80-120	
Lead	mg/kg	46.9	46.1	98	80-120	
Molybdenum	mg/kg	46.9	46.4	99	80-120	
Nickel	mg/kg	46.9	45.9	98	80-120	
Selenium	mg/kg	46.9	42.9	91	80-120	
Silver	mg/kg	23.5	21.6	92	80-120	
Thallium	mg/kg	46.9	47.0	100	80-120	
Vanadium	mg/kg	46.9	46.9	100	80-120	
Zinc	mg/kg	46.9	45.6	97	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Arlington HS - Colors-Revised Report
 Pace Project No.: 10727316

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5204804 5204805												
Parameter	Units	10728170003	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Spike Conc.	Spike Conc.								Result	Result	% Rec	% Rec	RPD	RPD
Antimony	mg/kg	<1.1	52.8	56.1	34.0	36.2	64	64	75-125	6	M1	
Arsenic	mg/kg	1.6	52.8	56.1	49.7	54.2	91	94	75-125	9	20	
Barium	mg/kg	48.3	52.8	56.1	93.4	119	86	126	75-125	24	M1,R1	
Beryllium	mg/kg	<0.27	52.8	56.1	50.2	55.1	95	98	75-125	9	20	
Cadmium	mg/kg	0.19	52.8	56.1	48.5	51.3	91	91	75-125	6	20	
Chromium	mg/kg	6.4	52.8	56.1	58.6	61.1	99	97	75-125	4	20	
Cobalt	mg/kg	2.8	52.8	56.1	51.5	54.1	92	91	75-125	5	20	
Copper	mg/kg	12.0	52.8	56.1	63.2	69.1	97	102	75-125	9	20	
Lead	mg/kg	61.5	52.8	56.1	106	65.5	84	7	75-125	47	M1,R1	
Molybdenum	mg/kg	<0.81	52.8	56.1	49.5	53.9	92	95	75-125	9	20	
Nickel	mg/kg	6.7	52.8	56.1	55.0	56.6	92	89	75-125	3	20	
Selenium	mg/kg	<1.1	52.8	56.1	47.6	51.9	89	92	75-125	9	20	
Silver	mg/kg	<0.54	26.3	28.1	24.6	26.9	93	96	75-125	9	20	
Thallium	mg/kg	<1.1	52.8	56.1	49.1	52.2	93	93	75-125	6	20	
Vanadium	mg/kg	10.1	52.8	56.1	64.2	66.4	103	100	75-125	3	20	
Zinc	mg/kg	26.8	52.8	56.1	79.5	74.2	100	84	75-125	7	20	

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QUALITY CONTROL DATA

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

QC Batch:	999276	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D Solids
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10727316004, 10727316005		

METHOD BLANK: 5212647 Matrix: Solid
Associated Lab Samples: 10727316004, 10727316005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	1.0	04/02/25 12:09	
Arsenic	mg/kg	ND	1.0	04/02/25 12:09	
Barium	mg/kg	ND	0.50	04/02/25 12:09	
Beryllium	mg/kg	ND	0.25	04/02/25 12:09	
Cadmium	mg/kg	ND	0.15	04/02/25 12:09	
Chromium	mg/kg	0.83	0.50	04/02/25 12:09	P8
Cobalt	mg/kg	ND	0.50	04/02/25 12:09	
Copper	mg/kg	ND	0.50	04/02/25 12:09	
Lead	mg/kg	ND	0.50	04/02/25 12:09	
Molybdenum	mg/kg	ND	0.75	04/02/25 12:09	
Nickel	mg/kg	ND	1.0	04/02/25 12:09	
Selenium	mg/kg	ND	1.0	04/02/25 12:09	
Silver	mg/kg	ND	0.50	04/02/25 12:09	
Thallium	mg/kg	ND	1.0	04/02/25 12:09	
Vanadium	mg/kg	ND	0.75	04/02/25 12:09	
Zinc	mg/kg	ND	2.0	04/02/25 12:09	

LABORATORY CONTROL SAMPLE: 5212648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	46.1	43.2	94	80-120	
Arsenic	mg/kg	46.1	43.5	94	80-120	
Barium	mg/kg	46.1	46.7	101	80-120	
Beryllium	mg/kg	46.1	44.8	97	80-120	
Cadmium	mg/kg	46.1	45.7	99	80-120	
Chromium	mg/kg	46.1	46.0	100	80-120	
Cobalt	mg/kg	46.1	45.3	98	80-120	
Copper	mg/kg	46.1	46.8	101	80-120	
Lead	mg/kg	46.1	45.3	98	80-120	
Molybdenum	mg/kg	46.1	45.6	99	80-120	
Nickel	mg/kg	46.1	45.4	98	80-120	
Selenium	mg/kg	46.1	42.3	92	80-120	
Silver	mg/kg	23	21.6	94	80-120	
Thallium	mg/kg	46.1	46.8	102	80-120	
Vanadium	mg/kg	46.1	46.1	100	80-120	
Zinc	mg/kg	46.1	45.2	98	80-120	

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QUALITY CONTROL DATA

Project: Arlington HS - Colors-Revised Report
 Pace Project No.: 10727316

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5212905 5212906												
Parameter	Units	10727316005		MS		MSD		MS		MSD		Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	% Rec	% Rec	% Rec	Max	
								Limits	RPD	RPD		
Antimony	mg/kg	9.2	48.6	48.4	38.4	46.0	60	75-125	18	20	M1	
Arsenic	mg/kg	ND	48.6	48.4	31.3	37.8	64	75-125	19	20	M1	
Barium	mg/kg	0.90	48.6	48.4	31.3	37.8	63	75-125	19	20	M1	
Beryllium	mg/kg	ND	48.6	48.4	31.1	38.2	64	75-125	20	20	M1	
Cadmium	mg/kg	ND	48.6	48.4	33.2	37.9	68	75-125	13	20	M1	
Chromium	mg/kg	17.6	48.6	48.4	46.8	58.4	60	75-125	22	20	M1,R1	
Cobalt	mg/kg	ND	48.6	48.4	29.1	35.5	60	75-125	20	20	M1	
Copper	mg/kg	0.73	48.6	48.4	34.5	42.1	70	75-125	20	20	M1	
Lead	mg/kg	ND	48.6	48.4	32.4	38.1	67	75-125	16	20	M1	
Molybdenum	mg/kg	ND	48.6	48.4	31.3	37.4	64	75-125	18	20	M1	
Nickel	mg/kg	ND	48.6	48.4	29.1	35.5	58	75-125	20	20	M1	
Selenium	mg/kg	ND	48.6	48.4	32.5	38.7	66	75-125	18	20	M1	
Silver	mg/kg	ND	24.3	24.2	16.4	18.2	67	75-125	11	20	M1	
Thallium	mg/kg	ND	48.6	48.4	34.0	39.0	70	75-125	14	20	M1	
Vanadium	mg/kg	ND	48.6	48.4	30.8	37.7	63	75-125	20	20	M1	
Zinc	mg/kg	ND	48.6	48.4	34.0	38.1	67	75-125	11	20	M1	

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QUALITY CONTROL DATA

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

QC Batch:	999814	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D Solids
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples: 10727316001, 10727316002, 10727316003			

METHOD BLANK: 5215133 Matrix: Solid
Associated Lab Samples: 10727316001, 10727316002, 10727316003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	0.97	04/04/25 13:07	
Arsenic	mg/kg	ND	0.97	04/04/25 13:07	
Barium	mg/kg	ND	0.48	04/04/25 13:07	
Beryllium	mg/kg	ND	0.24	04/04/25 13:07	
Cadmium	mg/kg	ND	0.14	04/04/25 13:07	
Chromium	mg/kg	ND	0.48	04/04/25 13:07	
Cobalt	mg/kg	ND	0.48	04/04/25 13:07	
Copper	mg/kg	ND	0.48	04/04/25 13:07	
Lead	mg/kg	ND	0.48	04/04/25 13:07	
Molybdenum	mg/kg	ND	0.72	04/04/25 13:07	
Nickel	mg/kg	ND	0.97	04/04/25 13:07	
Selenium	mg/kg	ND	0.97	04/04/25 13:07	
Silver	mg/kg	ND	0.48	04/04/25 13:07	
Thallium	mg/kg	ND	0.97	04/04/25 12:21	
Vanadium	mg/kg	ND	0.72	04/04/25 13:07	
Zinc	mg/kg	ND	1.9	04/04/25 13:07	

LABORATORY CONTROL SAMPLE & LCSD: 5215134

		5215135								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Antimony	mg/kg	47.3	45.2	45.9	96	96	80-120	1	20	
Arsenic	mg/kg	47.3	44.4	45.1	94	95	80-120	2	20	
Barium	mg/kg	47.3	47.5	48.0	100	101	80-120	1	20	
Beryllium	mg/kg	47.3	45.5	46.2	96	97	80-120	1	20	
Cadmium	mg/kg	47.3	46.2	46.9	98	99	80-120	2	20	
Chromium	mg/kg	47.3	47.2	47.8	100	101	80-120	1	20	
Cobalt	mg/kg	47.3	46.1	46.9	98	99	80-120	2	20	
Copper	mg/kg	47.3	47.5	48.2	101	101	80-120	1	20	
Lead	mg/kg	47.3	45.9	46.5	97	98	80-120	1	20	
Molybdenum	mg/kg	47.3	47.5	48.4	101	102	80-120	2	20	
Nickel	mg/kg	47.3	46.0	46.6	97	98	80-120	1	20	
Selenium	mg/kg	47.3	41.5	41.8	88	88	80-120	1	20	
Silver	mg/kg	23.6	21.5	21.8	91	92	80-120	2	20	
Thallium	mg/kg	47.3	46.3	47.8	98	101	80-120	3	20	
Vanadium	mg/kg	47.3	46.5	47.3	98	99	80-120	2	20	
Zinc	mg/kg	47.3	45.7	45.9	97	97	80-120	0	20	

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QUALITY CONTROL DATA

Project: Arlington HS - Colors-Revised Report
Project No.: 10727316

QC Batch:	996766	Analysis Method:	EPA 1633
QC Batch Method:	EPA 1633	Analysis Description:	EPA 1633F Soil
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10727316001, 10727316002, 10727316003, 10727316004, 10727316005		

METHOD BLANK: 5201107 Matrix: Solid
Associated Lab Samples: 10727316001, 10727316002, 10727316003, 10727316004, 10727316005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ug/kg	ND	0.80	03/19/25 10:36	
3:3 FTCA	ug/kg	ND	1.0	03/19/25 10:36	
4:2 FTS	ug/kg	ND	0.80	03/19/25 10:36	
5:3 FTCA	ug/kg	ND	5.0	03/19/25 10:36	
6:2 FTS	ug/kg	ND	0.80	03/19/25 10:36	
7:3 FTCA	ug/kg	ND	5.0	03/19/25 10:36	
8:2 FTS	ug/kg	ND	0.80	03/19/25 10:36	
9Cl-PF3ONS	ug/kg	ND	0.80	03/19/25 10:36	
ADONA	ug/kg	ND	0.80	03/19/25 10:36	
HFPO-DA	ug/kg	ND	0.80	03/19/25 10:36	
NEtFOSA	ug/kg	ND	0.20	03/19/25 10:36	
NEtFOSAA	ug/kg	ND	0.20	03/19/25 10:36	
NEtFOSE	ug/kg	ND	2.0	03/19/25 10:36	
NFDHA	ug/kg	ND	0.40	03/19/25 10:36	
NMeFOSA	ug/kg	ND	0.20	03/19/25 10:36	
NMeFOSAA	ug/kg	ND	0.20	03/19/25 10:36	
NMeFOSE	ug/kg	ND	2.0	03/19/25 10:36	
PFBA	ug/kg	ND	0.80	03/19/25 10:36	
PFBS	ug/kg	ND	0.20	03/19/25 10:36	
PFDA	ug/kg	ND	0.20	03/19/25 10:36	
PFDoA	ug/kg	ND	0.20	03/19/25 10:36	
PFDoS	ug/kg	ND	0.20	03/19/25 10:36	
PFDS	ug/kg	ND	0.20	03/19/25 10:36	
PFEESA	ug/kg	ND	0.40	03/19/25 10:36	
PFHpA	ug/kg	ND	0.20	03/19/25 10:36	
PFHpS	ug/kg	ND	0.20	03/19/25 10:36	
PFHxA	ug/kg	ND	0.20	03/19/25 10:36	
PFHxS	ug/kg	ND	0.20	03/19/25 10:36	
PFMBA	ug/kg	ND	0.40	03/19/25 10:36	
PFMPA	ug/kg	ND	0.40	03/19/25 10:36	
PFNA	ug/kg	ND	0.20	03/19/25 10:36	
PFNS	ug/kg	ND	0.20	03/19/25 10:36	
PFOA	ug/kg	ND	0.20	03/19/25 10:36	
PFOS	ug/kg	ND	0.20	03/19/25 10:36	
PFOSA	ug/kg	ND	0.20	03/19/25 10:36	
PFPeA	ug/kg	ND	0.40	03/19/25 10:36	
PFPeS	ug/kg	ND	0.20	03/19/25 10:36	
PFTeDA	ug/kg	ND	0.20	03/19/25 10:36	
PFTTrDA	ug/kg	ND	0.20	03/19/25 10:36	
PFUnA	ug/kg	ND	0.20	03/19/25 10:36	

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QUALITY CONTROL DATA

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

METHOD BLANK: 5201107 Matrix: Solid
Associated Lab Samples: 10727316001, 10727316002, 10727316003, 10727316004, 10727316005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%.	81	40-130	03/19/25 10:36	
13C2-PFTA (S)	%.	67	20-130	03/19/25 10:36	
13C24:2FTS (S)	%.	67	40-135	03/19/25 10:36	
13C26:2FTS (S)	%.	61	40-215	03/19/25 10:36	
13C28:2FTS (S)	%.	59	40-275	03/19/25 10:36	
13C3-PFBS (S)	%.	93	40-135	03/19/25 10:36	
13C3-PFHxS (S)	%.	95	40-130	03/19/25 10:36	
13C3-PFPrA (S)	%.	55	8-130	03/19/25 10:36	
13C3HFPO-DA (S)	%.	92	40-130	03/19/25 10:36	
13C4-PFBA (S)	%.	80	8-130	03/19/25 10:36	
13C4-PFHpA (S)	%.	96	40-130	03/19/25 10:36	
13C5-PFHxA (S)	%.	99	40-130	03/19/25 10:36	
13C5-PFPeA (S)	%.	93	35-130	03/19/25 10:36	
13C6-PFDA (S)	%.	98	40-130	03/19/25 10:36	
13C7-PFUdA (S)	%.	91	40-130	03/19/25 10:36	
13C8-PFOA (S)	%.	94	40-130	03/19/25 10:36	
13C8-PFOS (S)	%.	96	40-130	03/19/25 10:36	
13C8-PFOSA (S)	%.	85	40-130	03/19/25 10:36	
13C9-PFNA (S)	%.	95	40-130	03/19/25 10:36	
d3-MeFOSAA (S)	%.	85	40-135	03/19/25 10:36	
d3-NMeFOSA (S)	%.	75	10-130	03/19/25 10:36	
d5-EtFOSAA (S)	%.	81	40-150	03/19/25 10:36	
d5-NEtFOSA (S)	%.	74	10-130	03/19/25 10:36	
d7-NMeFOSE (S)	%.	80	20-130	03/19/25 10:36	
d9-NEtFOSE (S)	%.	74	15-130	03/19/25 10:36	

LABORATORY CONTROL SAMPLE: 5201108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ug/kg	7.5	6.9	91	45-160	
3:3 FTCA	ug/kg	9.9	6.6	67	45-130	
4:2 FTS	ug/kg	7.5	7.4	98	60-150	
5:3 FTCA	ug/kg	49.6	44.3	89	60-130	
6:2 FTS	ug/kg	7.7	7.8	102	55-200	
7:3 FTCA	ug/kg	49.6	42.3	85	60-150	
8:2 FTS	ug/kg	7.7	7.6	99	70-150	
9Cl-PF3ONS	ug/kg	7.5	7.7	102	70-150	
ADONA	ug/kg	7.5	8.2	109	70-160	
HFPO-DA	ug/kg	8	7.9	99	70-145	
NEtFOSA	ug/kg	1.9	1.8	96	70-140	
NEtFOSAA	ug/kg	1.9	1.8	93	65-165	
NEtFOSE	ug/kg	19.2	19.1	100	70-135	
NFDHA	ug/kg	4	3.8	95	60-155	
NMeFOSA	ug/kg	1.9	1.9	100	70-155	

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QUALITY CONTROL DATA

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

LABORATORY CONTROL SAMPLE: 5201108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NMeFOSAA	ug/kg	1.9	1.9	99	65-155	
NMeFOSE	ug/kg	19.2	19.3	100	70-140	
PFBA	ug/kg	8	7.5	94	70-140	
PFBS	ug/kg	1.8	1.7	99	65-145	
PFDA	ug/kg	1.9	1.9	99	70-155	
PFDaA	ug/kg	1.9	1.9	100	70-150	
PFDoS	ug/kg	1.9	1.6	82	25-160	
PFDS	ug/kg	1.9	1.7	91	40-155	
PFEESA	ug/kg	3.5	3.4	97	70-140	
PFHpA	ug/kg	1.9	2.0	102	65-145	
PFHpS	ug/kg	1.9	1.8	91	65-155	
PFHxA	ug/kg	1.9	1.9	98	65-140	
PFHxS	ug/kg	1.8	1.7	99	60-150	
PFMBA	ug/kg	4	4.1	101	60-150	
PFMPA	ug/kg	4	3.9	98	30-140	
PFNA	ug/kg	1.9	1.8	95	70-155	
PFNS	ug/kg	1.9	1.8	96	55-140	
PFOA	ug/kg	1.9	1.8	95	70-150	
PFOS	ug/kg	1.9	1.7	91	65-160	
PFOSA	ug/kg	1.9	1.8	95	70-140	
PFPeA	ug/kg	4	3.9	97	60-150	
PFPeS	ug/kg	1.9	1.9	97	55-160	
PFTeDA	ug/kg	1.9	2.0	105	65-150	
PFTrDA	ug/kg	1.9	1.9	97	65-150	
PFUnA	ug/kg	1.9	1.9	98	70-155	
13C2-PFDaA (S)	%			97	40-130	
13C2-PFTA (S)	%			80	20-130	
13C24:2FTS (S)	%			77	40-135	
13C26:2FTS (S)	%			72	40-215	
13C28:2FTS (S)	%			71	40-275	
13C3-PFBS (S)	%			112	40-135	
13C3-PFHxS (S)	%			111	40-130	
13C3-PFPrA (S)	%			64	8-130	
13C3HFPO-DA (S)	%			110	40-130	
13C4-PFBA (S)	%			99	8-130	
13C4-PFHpA (S)	%			111	40-130	
13C5-PFHxA (S)	%			114	40-130	
13C5-PFPeA (S)	%			110	35-130	
13C6-PFDA (S)	%			113	40-130	
13C7-PFUDa (S)	%			105	40-130	
13C8-PFOA (S)	%			119	40-130	
13C8-PFOS (S)	%			102	40-130	
13C8-PFOSA (S)	%			94	40-130	
13C9-PFNA (S)	%			114	40-130	
d3-MeFOSAA (S)	%			86	40-135	
d3-NMeFOSA (S)	%			85	10-130	
d5-EtFOSAA (S)	%			88	40-150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Arlington HS - Colors-Revised Report

Pace Project No.: 10727316

LABORATORY CONTROL SAMPLE: 5201108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d5-NEtFOSA (S)	%.			82	10-130	
d7-NMeFOSE (S)	%.			84	20-130	
d9-NEtFOSE (S)	%.			80	15-130	

LABORATORY CONTROL SAMPLE: 5201109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11Cl-PF3OUdS	ug/kg	1.5	1.4	90	45-160	
3:3 FTCA	ug/kg	2	1.5	75	45-130	
4:2 FTS	ug/kg	1.5	1.4	94	60-150	
5:3 FTCA	ug/kg	9.9	8.9	89	60-130	
6:2 FTS	ug/kg	1.5	1.4	93	55-200	
7:3 FTCA	ug/kg	9.9	9.1	92	60-150	
8:2 FTS	ug/kg	1.5	1.4	91	70-150	
9Cl-PF3ONS	ug/kg	1.5	1.5	99	70-150	
ADONA	ug/kg	1.5	1.6	103	70-160	
HFPO-DA	ug/kg	1.6	1.5	96	70-145	
NEtFOSA	ug/kg	0.38	0.37	96	70-140	
NEtFOSAA	ug/kg	0.38	0.34	89	65-165	
NEtFOSE	ug/kg	3.8	3.8	99	70-135	
NFDHA	ug/kg	0.8	0.77	96	60-155	
NMeFOSA	ug/kg	0.38	0.41	106	70-155	
NMeFOSAA	ug/kg	0.38	0.34	89	65-155	
NMeFOSE	ug/kg	3.8	3.9	101	70-140	
PFBA	ug/kg	1.6	1.6	102	70-140	
PFBS	ug/kg	0.35	0.34	97	65-145	
PFDA	ug/kg	0.38	0.40	103	70-155	
PFDoA	ug/kg	0.38	0.38	98	70-150	
PFDoS	ug/kg	0.38	0.32	83	25-160	
PFDS	ug/kg	0.38	0.33	87	40-155	
PFEESA	ug/kg	0.7	0.69	98	70-140	
PFHpA	ug/kg	0.38	0.37	97	65-145	
PFHpS	ug/kg	0.38	0.35	90	65-155	
PFHxA	ug/kg	0.38	0.37	96	65-140	
PFHxS	ug/kg	0.35	0.37	104	60-150	
PFMBA	ug/kg	0.8	0.79	99	60-150	
PFMPA	ug/kg	0.8	0.79	99	30-140	
PFNA	ug/kg	0.38	0.40	104	70-155	
PFNS	ug/kg	0.38	0.34	88	55-140	
PFOA	ug/kg	0.38	0.38	98	70-150	
PFOS	ug/kg	0.38	0.37	95	65-160	
PFOSA	ug/kg	0.38	0.39	102	70-140	
PFPeA	ug/kg	0.8	0.75	94	60-150	
PFPeS	ug/kg	0.38	0.38	99	55-160	
PFTeDA	ug/kg	0.38	0.40	104	65-150	

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QUALITY CONTROL DATA

Project: Arlington HS - Colors-Revised Report
 Pace Project No.: 10727316

LABORATORY CONTROL SAMPLE: 5201109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFTTrDA	ug/kg	0.38	0.35	92	65-150	
PFUnA	ug/kg	0.38	0.40	103	70-155	
13C2-PFDoA (S)	%.			118	40-130	
13C2-PFTA (S)	%.			90	20-130	
13C24:2FTS (S)	%.			89	40-135	
13C26:2FTS (S)	%.			87	40-215	
13C28:2FTS (S)	%.			80	40-275	
13C3-PFBS (S)	%.			126	40-135	
13C3-PFHxS (S)	%.			117	40-130	
13C3-PFPrA (S)	%.			74	8-130	
13C3HFPO-DA (S)	%.			130	40-130	
13C4-PFBA (S)	%.			115	8-130	
13C4-PFHpA (S)	%.			132	40-130	S0
13C5-PFHxA (S)	%.			134	40-130	S0
13C5-PFPeA (S)	%.			133	35-130	S0
13C6-PFDA (S)	%.			130	40-130	
13C7-PFUdA (S)	%.			128	40-130	
13C8-PFOA (S)	%.			133	40-130	S0
13C8-PFOS (S)	%.			125	40-130	
13C8-PFOSA (S)	%.			109	40-130	
13C9-PFNA (S)	%.			125	40-130	
d3-MeFOSAA (S)	%.			108	40-135	
d3-NMeFOSA (S)	%.			100	10-130	
d5-EtFOSAA (S)	%.			107	40-150	
d5-NEtFOSA (S)	%.			98	10-130	
d7-NMeFOSE (S)	%.			101	20-130	
d9-NEtFOSE (S)	%.			94	15-130	

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QUALIFIERS

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10727316
[1] The enclosed data is not intended for regulatory compliance; certification was waived by the client.

SAMPLE QUALIFIERS

Sample: 10727316001
[1] Sample was cryomilled prior to 1633 extraction based on the Pace Analytical SOP for handling of articles of commerce.

BATCH QUALIFIERS

Batch: 999900
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P8 Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.
R1 RPD value was outside control limits.
S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Arlington HS - Colors-Revised Report
Pace Project No.: 10727316

ANALYTE QUALIFIERS

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Arlington HS - Colors-Revised Report
 Pace Project No.: 10727316

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10727316001	FG/LG Blend	EPA 3050B	997652	EPA 6010D	997903
10727316001	FG/LG Blend	EPA 3050B	999814	EPA 6010D	999900
10727316002	White	EPA 3050B	997652	EPA 6010D	997903
10727316002	White	EPA 3050B	999814	EPA 6010D	999900
10727316003	Gray	EPA 3050B	997652	EPA 6010D	997903
10727316003	Gray	EPA 3050B	999814	EPA 6010D	999900
10727316004	Vegas Gold	EPA 3050B	997652	EPA 6010D	997903
10727316004	Vegas Gold	EPA 3050B	999276	EPA 6010D	999483
10727316005	Maroon	EPA 3050B	997652	EPA 6010D	997903
10727316005	Maroon	EPA 3050B	999276	EPA 6010D	999483
10727316001	FG/LG Blend	EPA 7471B	997653	EPA 7471B	998050
10727316001	FG/LG Blend	EPA 7471B	999278	EPA 7471B	999377
10727316002	White	EPA 7471B	997653	EPA 7471B	998050
10727316002	White	EPA 7471B	999278	EPA 7471B	999377
10727316003	Gray	EPA 7471B	997653	EPA 7471B	998050
10727316003	Gray	EPA 7471B	999278	EPA 7471B	999377
10727316004	Vegas Gold	EPA 7471B	997653	EPA 7471B	998050
10727316004	Vegas Gold	EPA 7471B	999278	EPA 7471B	999377
10727316005	Maroon	EPA 7471B	997653	EPA 7471B	998050
10727316005	Maroon	EPA 7471B	999278	EPA 7471B	999377
10727316001	FG/LG Blend	EPA 1633	996766	EPA 1633	997434
10727316002	White	EPA 1633	996766	EPA 1633	997434
10727316003	Gray	EPA 1633	996766	EPA 1633	997434
10727316004	Vegas Gold	EPA 1633	996766	EPA 1633	997434
10727316005	Maroon	EPA 1633	996766	EPA 1633	997434

REPORT OF LABORATORY ANALYSIS

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ENV-fRM-CORQ-0019 v02 110123

ENV-FRM-MIN4-0150 v19_Sample Condition Upon Receipt

Person Examining & Date:
EVM 3/24/25

PROJECT#:
WO#: 10727316

Client Name: S fr. Vilitv-?-:

Custody Seal Present: ☐ YES ☒ No Seals Intact: ☐ YES ☒ No

Tracking Number: 7726 9955 6415

Courier: ☐ Client ☐ Commercial ☒ FedEx

Packing Material: ☐ Bubble Bags ☐ Bubble Wrap ☒ None

Thermometer: ☐ T1 (0461) ☐ T2 (0431) ☒ T3 (0459) ☐ T4 (0402) ☐ T5 (0187) ☐ T6 (0396) ☐ T7 (03n) ☐ T8 (0775) ☐ T9 (0428) ☐ 01339252 (0710)

Type of Ice: ☐ Blue ☒ Jrv ☐ Wet ☐ Melted ☐ None

Temp Blank: ☐ YES ☒ 11NO

NOTE: Temp should be 5 6°C, but abovefreezing.

Read Temp w/Temp Blank: -----°C

Correction Factor: -tiJ.X

Corrected Temp w/Temp Blank: -----°C

Did Samples Originate in West Virginia: ☐ YES ☒ NO (list i,rnps on exception)

Were All Container Temps Taken: ☐ YES ☒ NO ☐ B'N/A

Average Corrected Temp (No Temp Blank Only): 2.J.h

Did See E eptions form ENV-FRM-MIN4-0142. ☐ YES ☒ NO

USDA Regulated Soil: ☐ N/A-Water Sample/Other (describe): 11111111

Did Samples originate from one of the following states (check ma s): ☐ NO Are samples from a foreign source (international, including Hawaii Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA and Puerto Rico): ☐ YES ☒ NO

NOTE: If YES to either questl , fl/1 out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and Indude with SCUR/COC paperwork.

LOCATION (check one): <input type="checkbox"/> DULUTH <input checked="" type="checkbox"/> MINNEAPOLIS <input type="checkbox"/> VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? (i.e., Analysis/ID/Date/Time)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. <u>COC provided after receipt</u>
Chain of Custody Relinquished?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.
Sampler Name and/or Signature on COC?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
If Fecal: <input type="checkbox"/> <8 hr.s <input type="checkbox"/> >8 hr but <24 hr <input type="checkbox"/> >24hr	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <input type="checkbox"/> BOD/ cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Turbidity D Other: <u> </u>
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. <input type="checkbox"/> Same Day D 1 Day D 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 5 Day Due Date: <u> </u>
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Sufficient Sample Volume? (If NO, list approximate volume in section 7.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Correct Containers Used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9.
- Pace Containers Used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10.
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. Is sediment visible in the dissolved container: <input type="checkbox"/> YES D NO
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
ID/Date/Time Match? (If NO, fill out section 11.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input type="checkbox"/> Water <input checked="" type="checkbox"/> Other <u>Product</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
All containers needing acid/base preservation have been checked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample#:				
<input type="checkbox"/> HNO3 <u> </u> <input type="checkbox"/> OH2SO4 <u> </u> <input type="checkbox"/> NaOH <u> </u> <input checked="" type="checkbox"/> Acetate <u> </u>				
pH Paper Lot#:				
D Residual Chlorine <u> </u> <input type="checkbox"/> 0-6 Roll <u> </u> <input type="checkbox"/> 0-6 Strip <u> </u> <input type="checkbox"/> 0-14Strip <u> </u>				
Preserved containers in compliance with EPA recommendations? (HN03, H2S04, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142
EXCEPTIONS (water only): VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DR0/8015, Dioxins, and PFAS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Extra labels present on soil VOA or WIDRO containers? (soil only)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

CLIENT NOTIFICATION/ RESOLUTION:

Labeled By: JVfV/1 Une:£



Arlington HS – CAM 17 Test Results - Rubber

April 07, 2025

Please see the below chart summarizing the metals data from Pace Analytical.

Metal	Crumb Rubber Results (mg/kg)	Detection Limit (mg/kg)	Result
Antimony	ND	500	PASS
Arsenic	ND	500	PASS
Barium	4.9	10000	PASS
Beryllium	ND	75	PASS
Cadmium	.36	100	PASS
Chromium	1.3	2500	PASS
Cobalt	67.2	8000	PASS
Copper	14.6	2500	PASS
Lead	8.8	1000	PASS
Molybdenum	ND	3500	PASS
Nickel	2.8	2000	PASS
Selenium	1.2	100	PASS
Silver	ND	500	PASS
Thallium	ND	700	PASS
Vanadium	.82	2400	PASS
Zinc	13600	5000	FAIL

The Federal EPA and the Massachusetts Department of Environmental Protection 310 CMR 30.000, Massachusetts Hazardous Waste Regulations do not specifically regulate the use of SRB crumb rubber in sports fields and other sport surfaces. While the regulations cover hazardous waste management, crumb rubber itself is not classified as a solid or hazardous waste. Crumb rubber, composed of recycled tires, is not generally considered to possess these hazardous characteristics. While it may contain some chemicals, the levels are low and result in low exposure levels.

The testing of SRB crumb rubber using regulations such as CAM 17, and out of state solid and hazardous waste regulation, uses EPA 6010D which utilizes acid digestion prior to analysis followed by inductively coupled plasma—optical emission spectrometry (ICP-OES) used to determine trace elements in aqueous solutions. Basically, this method transforms a solid into a gas (i.e., nebulizes) to determine the concentration of included elements.

The aggressive nature of EPA 6010D, although appropriate for solid and hazardous waste testing, is not appropriate for evaluating the suitability of an infill material used in synthetic fields.

Testing performed as part of the Federal Research on Recycled Tire Crumb Used on Playing Fields and Playgrounds has indicated that any exposures of chemicals of concern are generally very low and at 1 in 1,000,000 risk levels for cancer and non-cancer exposure over a 70 year life span.

- Synthetic Turf Field Recycled Tire Crumb Rubber Research Under the Federal Research Action Plan Final Report Part 2 – Exposure Characterization Volume I April 16, 2024
- And the recent follow up OEHA Synthetic Turf Study March 2025 Public Review Draft



Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

March 20, 2025

Caitlin Olive
Sprinturf
146 Fairchild Street
Charleston, SC 29492

RE: Project: Arlington HS
Pace Project No.: 10725098

Dear Caitlin Olive:

Enclosed are the analytical results for sample(s) received by the laboratory on February 28, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Arlington HS

Pace Project No.: 10725098

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

DoD Certification via A2LA #: 2926.01

EPA Region 8 Tribal Water Systems+Wyoming DW

Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

ISO/IEC 17025 Certification via A2LA #: 2926.01

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification via A2LA #: 2926.01

USDA Permit #: P330-19-00208

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Arlington HS
Pace Project No.: 10725098

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10725098001	Crumb Rubber	Solid		02/28/25 13:40

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Arlington HS
Pace Project No.: 10725098

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10725098001	Crumb Rubber	EPA 6010D	IP	16	PASI-M
		EPA 7471B	LMW	1	PASI-M
		EPA 1633	MJL	65	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Arlington HS

Pace Project No.: 10725098

Sample: Crumb Rubber Lab ID: 10725098001 Collected: Received: 02/28/25 13:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
Initial Volume/Weight: 1.034 g Final Volume/Weight: 50 mL								
Pace Analytical Services - Minneapolis								
Antimony	ND	mg/kg	0.97	1	03/12/25 10:25	03/12/25 14:17	7440-36-0	
Arsenic	ND	mg/kg	0.97	1	03/12/25 10:25	03/12/25 14:17	7440-38-2	
Barium	4.9	mg/kg	0.48	1	03/12/25 10:25	03/12/25 14:17	7440-39-3	
Beryllium	ND	mg/kg	0.24	1	03/12/25 10:25	03/12/25 14:17	7440-41-7	
Cadmium	0.36	mg/kg	0.15	1	03/12/25 10:25	03/12/25 14:17	7440-43-9	
Chromium	1.3	mg/kg	0.48	1	03/12/25 10:25	03/12/25 14:17	7440-47-3	
Cobalt	67.2	mg/kg	0.48	1	03/12/25 10:25	03/12/25 14:17	7440-48-4	
Copper	14.6	mg/kg	0.48	1	03/12/25 10:25	03/12/25 14:17	7440-50-8	
Lead	8.8	mg/kg	0.48	1	03/12/25 10:25	03/12/25 14:17	7439-92-1	
Molybdenum	ND	mg/kg	0.73	1	03/12/25 10:25	03/12/25 14:17	7439-98-7	
Nickel	2.8	mg/kg	0.97	1	03/12/25 10:25	03/12/25 14:17	7440-02-0	
Selenium	1.2	mg/kg	0.97	1	03/12/25 10:25	03/12/25 14:17	7782-49-2	
Silver	ND	mg/kg	0.48	1	03/12/25 10:25	03/12/25 14:17	7440-22-4	
Thallium	ND	mg/kg	0.97	1	03/12/25 10:25	03/12/25 14:17	7440-28-0	
Vanadium	0.82	mg/kg	0.73	1	03/12/25 10:25	03/12/25 14:17	7440-62-2	
Zinc	13600	mg/kg	38.7	20	03/12/25 10:25	03/12/25 14:25	7440-66-6	

7471B Mercury

Analytical Method: EPA 7471B Preparation Method: EPA 7471B

Initial Volume/Weight: 0.358 g Final Volume/Weight: 30 mL

Pace Analytical Services - Minneapolis

Mercury	0.019	mg/kg	0.017	1	03/19/25 08:24	03/19/25 12:39	7439-97-6	
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EPA 1633F Soil

Analytical Method: EPA 1633 Preparation Method: EPA 1633

Initial Volume/Weight: 2 g Final Volume/Weight: 4 mL

Pace Analytical Services - Minneapolis

11CI-PF3OUdS	ND	ug/kg	2.0	1	03/09/25 08:56	03/10/25 16:54	763051-92-9	
3:3 FTCA	ND	ug/kg	2.5	1	03/09/25 08:56	03/10/25 16:54	356-02-5	
4:2 FTS	ND	ug/kg	2.0	1	03/09/25 08:56	03/10/25 16:54	757124-72-4	
5:3 FTCA	ND	ug/kg	12.5	1	03/09/25 08:56	03/10/25 16:54	914637-49-3	
6:2 FTS	ND	ug/kg	2.0	1	03/09/25 08:56	03/10/25 16:54	27619-97-2	
7:3 FTCA	ND	ug/kg	12.5	1	03/09/25 08:56	03/10/25 16:54	812-70-4	
8:2 FTS	ND	ug/kg	2.0	1	03/09/25 08:56	03/10/25 16:54	39108-34-4	
9CI-PF3ONS	ND	ug/kg	2.0	1	03/09/25 08:56	03/10/25 16:54	756426-58-1	
ADONA	ND	ug/kg	2.0	1	03/09/25 08:56	03/10/25 16:54	919005-14-4	
HFPO-DA	ND	ug/kg	2.0	1	03/09/25 08:56	03/10/25 16:54	13252-13-6	
NEtFOSAA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	2991-50-6	
NEtFOSA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	4151-50-2	
NEtFOSE	ND	ug/kg	5.0	1	03/09/25 08:56	03/10/25 16:54	1691-99-2	
NFDHA	ND	ug/kg	1.0	1	03/09/25 08:56	03/10/25 16:54	151772-58-6	
NMeFOSAA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	2355-31-9	
NMeFOSA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	31506-32-8	
NMeFOSE	ND	ug/kg	5.0	1	03/09/25 08:56	03/10/25 16:54	24448-09-7	
PFBS	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	375-73-5	

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ANALYTICAL RESULTS

Project: Arlington HS

Pace Project No.: 10725098

JJA Sports: NET (No Exceptions Taken) Testing for
PFOA Compounds Area Non-Detect Using EPA 1633F

Sample: Crumb Rubber Lab ID: 10725098001 Collected: Received: 02/28/25 13:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633F Soil								
Analytical Method: EPA 1633 Preparation Method: EPA 1633								
Initial Volume/Weight: 2 g Final Volume/Weight: 4 mL								
Pace Analytical Services - Minneapolis								
PFDA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	335-76-2	
PFHxA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	307-24-4	
PFBA	ND	ug/kg	2.0	1	03/09/25 08:56	03/10/25 16:54	375-22-4	
PFDS	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	335-77-3	
PFDoS	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	79780-39-5	
PFEESA	ND	ug/kg	1.0	1	03/09/25 08:56	03/10/25 16:54	113507-82-7	
PFHpS	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	375-92-8	
PFMBA	ND	ug/kg	1.0	1	03/09/25 08:56	03/10/25 16:54	863090-89-5	
PFMPA	ND	ug/kg	1.0	1	03/09/25 08:56	03/10/25 16:54	377-73-1	
PFNS	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	68259-12-1	
PFOSA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	754-91-6	
PFPeA	ND	ug/kg	1.0	1	03/09/25 08:56	03/10/25 16:54	2706-90-3	
PFPeS	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	2706-91-4	
PFDaA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	307-55-1	
PFHpA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	375-85-9	
PFHxS	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	355-46-4	
PFNA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	375-95-1	
PFOS	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	1763-23-1	
PFOA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	335-67-1	
PFTeDA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	376-06-7	
PFTTrDA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	72629-94-8	
PFUnA	ND	ug/kg	0.50	1	03/09/25 08:56	03/10/25 16:54	2058-94-8	
Surrogates								
13C2-PFDoA (S)	113	%.	40-130	1	03/09/25 08:56	03/10/25 16:54		
13C3HFPO-DA (S)	70	%.	40-130	1	03/09/25 08:56	03/10/25 16:54		
13C3-PFBS (S)	83	%.	40-135	1	03/09/25 08:56	03/10/25 16:54		
13C3-PFHxS (S)	85	%.	40-130	1	03/09/25 08:56	03/10/25 16:54		
13C4-PFBA (S)	78	%.	8-130	1	03/09/25 08:56	03/10/25 16:54		
13C4-PFHpA (S)	87	%.	40-130	1	03/09/25 08:56	03/10/25 16:54		
13C5-PFHxA (S)	85	%.	40-130	1	03/09/25 08:56	03/10/25 16:54		
13C5-PFPeA (S)	82	%.	35-130	1	03/09/25 08:56	03/10/25 16:54		
13C6-PFDA (S)	82	%.	40-130	1	03/09/25 08:56	03/10/25 16:54		
13C8-PFOA (S)	86	%.	40-130	1	03/09/25 08:56	03/10/25 16:54		
13C8-PFOS (S)	90	%.	40-130	1	03/09/25 08:56	03/10/25 16:54		
13C8-PFOA (S)	64	%.	40-130	1	03/09/25 08:56	03/10/25 16:54		
13C9-PFNA (S)	87	%.	40-130	1	03/09/25 08:56	03/10/25 16:54		
d3-MeFOSAA (S)	98	%.	40-135	1	03/09/25 08:56	03/10/25 16:54		
d3-NMeFOSA (S)	26	%.	10-130	1	03/09/25 08:56	03/10/25 16:54		
d5-EtFOSAA (S)	140	%.	40-150	1	03/09/25 08:56	03/10/25 16:54		
d5-NEtFOSA (S)	28	%.	10-130	1	03/09/25 08:56	03/10/25 16:54		
d7-NMeFOSE (S)	12	%.	20-130	1	03/09/25 08:56	03/10/25 16:54		S0
d9-NEtFOSE (S)	8	%.	15-130	1	03/09/25 08:56	03/10/25 16:54		S0
13C2-PFTA (S)	125	%.	20-130	1	03/09/25 08:56	03/10/25 16:54		
13C7-PFUDa (S)	120	%.	40-130	1	03/09/25 08:56	03/10/25 16:54		

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ANALYTICAL RESULTS

Project: Arlington HS
Pace Project No.: 10725098

Sample: Crumb Rubber		Lab ID: 10725098001		Collected:		Received: 02/28/25 13:40		Matrix: Solid	
Results reported on a "wet-weight" basis									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

EPA 1633F Soil

Analytical Method: EPA 1633 Preparation Method: EPA 1633
Initial Volume/Weight: 2 g Final Volume/Weight: 4 mL
Pace Analytical Services - Minneapolis

Surrogates									
13C24:2FTS (S)	280	%.	40-135	1	03/09/25 08:56	03/10/25 16:54		S3	
13C26:2FTS (S)	406	%.	40-215	1	03/09/25 08:56	03/10/25 16:54		S3	
13C28:2FTS (S)	266	%.	40-275	1	03/09/25 08:56	03/10/25 16:54			
13C3-PFPrA (S)	47	%.	8-130	1	03/09/25 08:56	03/10/25 16:54			

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QUALITY CONTROL DATA

Project: Arlington HS

Pace Project No.: 10725098

QC Batch: 996644

Analysis Method: EPA 7471B

QC Batch Method: EPA 7471B

Analysis Description: 7471B Mercury Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10725098001

METHOD BLANK: 5200785

Matrix: Solid

Associated Lab Samples: 10725098001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.020	03/19/25 12:33	

LABORATORY CONTROL SAMPLE: 5200786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.47	0.50	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5200787 5200788

Parameter	Units	10725098001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.019	0.42	0.47	0.41	0.47	92	95	80-120	13	20	

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QUALITY CONTROL DATA

Project: Arlington HS

Pace Project No.: 10725098

QC Batch: 995928

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10725098001

METHOD BLANK: 5196344

Matrix: Solid

Associated Lab Samples: 10725098001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	0.94	03/12/25 13:55	
Arsenic	mg/kg	ND	0.94	03/12/25 13:55	
Barium	mg/kg	ND	0.47	03/12/25 13:55	
Beryllium	mg/kg	ND	0.23	03/12/25 13:55	
Cadmium	mg/kg	ND	0.14	03/12/25 13:55	
Chromium	mg/kg	ND	0.47	03/12/25 13:55	
Cobalt	mg/kg	ND	0.47	03/12/25 13:55	
Copper	mg/kg	ND	0.47	03/12/25 13:55	
Lead	mg/kg	ND	0.47	03/12/25 13:55	
Molybdenum	mg/kg	ND	0.70	03/12/25 13:55	
Nickel	mg/kg	ND	0.94	03/12/25 13:55	
Selenium	mg/kg	ND	0.94	03/12/25 13:55	
Silver	mg/kg	ND	0.47	03/12/25 13:55	
Thallium	mg/kg	ND	0.94	03/12/25 13:55	
Vanadium	mg/kg	ND	0.70	03/12/25 13:55	
Zinc	mg/kg	ND	1.9	03/12/25 13:55	

LABORATORY CONTROL SAMPLE: 5196345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	47	43.8	93	80-120	
Arsenic	mg/kg	47	45.1	96	80-120	
Barium	mg/kg	47	47.3	101	80-120	
Beryllium	mg/kg	47	46.2	98	80-120	
Cadmium	mg/kg	47	46.8	100	80-120	
Chromium	mg/kg	47	47.3	101	80-120	
Cobalt	mg/kg	47	47.1	100	80-120	
Copper	mg/kg	47	48.3	103	80-120	
Lead	mg/kg	47	46.7	99	80-120	
Molybdenum	mg/kg	47	46.0	98	80-120	
Nickel	mg/kg	47	46.8	99	80-120	
Selenium	mg/kg	47	43.4	92	80-120	
Silver	mg/kg	23.5	22.2	94	80-120	
Thallium	mg/kg	47	47.9	102	80-120	
Vanadium	mg/kg	47	47.4	101	80-120	
Zinc	mg/kg	47	46.6	99	80-120	

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QUALITY CONTROL DATA

Project: Arlington HS
Pace Project No.: 10725098

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5196346 5196347												
Parameter	Units	10725146003	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike									Result	Result	% Rec	% Rec	Limits	RPD
Antimony	mg/kg	<7.5	356	359	312	307	87	85	75-125	1	20	
Arsenic	mg/kg	<7.5	356	359	333	326	93	90	75-125	2	20	
Barium	mg/kg	57.4	356	359	414	395	100	94	75-125	5	20	
Beryllium	mg/kg	<1.9	356	359	347	338	97	94	75-125	3	20	
Cadmium	mg/kg	<1.1	356	359	347	340	97	94	75-125	2	20	
Chromium	mg/kg	4.1	356	359	359	349	100	96	75-125	3	20	
Cobalt	mg/kg	<3.8	356	359	355	345	99	96	75-125	3	20	
Copper	mg/kg	9.1	356	359	383	373	105	101	75-125	3	20	
Lead	mg/kg	<3.8	356	359	350	341	98	94	75-125	3	20	
Molybdenum	mg/kg	<5.6	356	359	344	336	96	93	75-125	2	20	
Nickel	mg/kg	8.8	356	359	360	349	99	95	75-125	3	20	
Selenium	mg/kg	<7.5	356	359	332	325	92	90	75-125	2	20	
Silver	mg/kg	<3.8	178	180	148	147	83	82	75-125	1	20	
Thallium	mg/kg	<7.5	356	359	355	347	100	97	75-125	2	20	
Vanadium	mg/kg	11.1	356	359	368	356	100	96	75-125	3	20	
Zinc	mg/kg	<15.0	356	359	359	352	97	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: Arlington HS

Pace Project No.: 10725098

METHOD BLANK: 5189604

Matrix: Solid

Associated Lab Samples: 10725098001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%	64	40-130	03/10/25 13:06	
13C2-PFTA (S)	%	59	20-130	03/10/25 13:06	
13C24:2FTS (S)	%	67	40-135	03/10/25 13:06	
13C26:2FTS (S)	%	58	40-215	03/10/25 13:06	
13C28:2FTS (S)	%	58	40-275	03/10/25 13:06	
13C3-PFBS (S)	%	69	40-135	03/10/25 13:06	
13C3-PFHxS (S)	%	64	40-130	03/10/25 13:06	
13C3-PFPrA (S)	%	36	8-130	03/10/25 13:06	
13C3HFPO-DA (S)	%	68	40-130	03/10/25 13:06	
13C4-PFBA (S)	%	60	8-130	03/10/25 13:06	
13C4-PFHpA (S)	%	63	40-130	03/10/25 13:06	
13C5-PFHxA (S)	%	65	40-130	03/10/25 13:06	
13C5-PFPeA (S)	%	67	35-130	03/10/25 13:06	
13C6-PFDA (S)	%	67	40-130	03/10/25 13:06	
13C7-PFUdA (S)	%	66	40-130	03/10/25 13:06	
13C8-PFOA (S)	%	69	40-130	03/10/25 13:06	
13C8-PFOS (S)	%	71	40-130	03/10/25 13:06	
13C8-PFOSA (S)	%	68	40-130	03/10/25 13:06	
13C9-PFNA (S)	%	69	40-130	03/10/25 13:06	
d3-MeFOSAA (S)	%	64	40-135	03/10/25 13:06	
d3-NMeFOSA (S)	%	60	10-130	03/10/25 13:06	
d5-EtFOSAA (S)	%	64	40-150	03/10/25 13:06	
d5-NEtFOSA (S)	%	58	10-130	03/10/25 13:06	
d7-NMeFOSE (S)	%	66	20-130	03/10/25 13:06	
d9-NEtFOSE (S)	%	65	15-130	03/10/25 13:06	

LABORATORY CONTROL SAMPLE: 5189605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/kg	7.5	7.0	94	45-160	
3:3 FTCA	ug/kg	9.9	6.6	66	45-130	
4:2 FTS	ug/kg	7.5	6.8	90	60-150	
5:3 FTCA	ug/kg	49.6	42.8	86	60-130	
6:2 FTS	ug/kg	7.7	7.5	97	55-200	
7:3 FTCA	ug/kg	49.6	41.8	84	60-150	
8:2 FTS	ug/kg	7.7	6.8	89	70-150	
9CI-PF3ONS	ug/kg	7.5	7.1	94	70-150	
ADONA	ug/kg	7.5	7.0	92	70-160	
HFPO-DA	ug/kg	8	7.1	88	70-145	
NEtFOSA	ug/kg	1.9	1.8	91	70-140	
NEtFOSAA	ug/kg	1.9	1.7	91	65-165	
NEtFOSE	ug/kg	19.2	17.5	91	70-135	
NFDHA	ug/kg	4	3.5	89	60-155	
NMeFOSA	ug/kg	1.9	1.8	93	70-155	

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QUALITY CONTROL DATA

Project: Arlington HS

Pace Project No.: 10725098

LABORATORY CONTROL SAMPLE: 5189605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NMeFOSAA	ug/kg	1.9	1.7	88	65-155	
NMeFOSE	ug/kg	19.2	17.7	92	70-140	
PFBA	ug/kg	8	6.9	86	70-140	
PFBS	ug/kg	1.8	1.6	92	65-145	
PFDA	ug/kg	1.9	1.7	90	70-155	
PFDaA	ug/kg	1.9	1.8	93	70-150	
PFDoS	ug/kg	1.9	1.7	89	25-160	
PFDS	ug/kg	1.9	1.7	90	40-155	
PFEESA	ug/kg	3.5	3.2	92	70-140	
PFHpA	ug/kg	1.9	1.7	91	65-145	
PFHpS	ug/kg	1.9	1.7	88	65-155	
PFHxA	ug/kg	1.9	1.8	93	65-140	
PFHxS	ug/kg	1.8	1.5	86	60-150	
PFMBA	ug/kg	4	3.6	90	60-150	
PFMPA	ug/kg	4	4.0	100	30-140	
PFNA	ug/kg	1.9	1.8	93	70-155	
PFNS	ug/kg	1.9	1.7	87	55-140	
PFOA	ug/kg	1.9	1.7	88	70-150	
PFOS	ug/kg	1.9	1.6	84	65-160	
PFOSA	ug/kg	1.9	1.7	89	70-140	
PFPeA	ug/kg	4	3.6	89	60-150	
PFPeS	ug/kg	1.9	1.6	85	55-160	
PFTeDA	ug/kg	1.9	1.8	95	65-150	
PFTrDA	ug/kg	1.9	1.8	93	65-150	
PFUnA	ug/kg	1.9	1.8	92	70-155	
13C2-PFDaA (S)	%			83	40-130	
13C2-PFTA (S)	%			78	20-130	
13C24:2FTS (S)	%			98	40-135	
13C26:2FTS (S)	%			79	40-215	
13C28:2FTS (S)	%			83	40-275	
13C3-PFBS (S)	%			94	40-135	
13C3-PFHxS (S)	%			92	40-130	
13C3-PFPrA (S)	%			38	8-130	
13C3HFPO-DA (S)	%			83	40-130	
13C4-PFBA (S)	%			66	8-130	
13C4-PFHpA (S)	%			83	40-130	
13C5-PFHxA (S)	%			84	40-130	
13C5-PFPeA (S)	%			85	35-130	
13C6-PFDA (S)	%			89	40-130	
13C7-PFUdA (S)	%			88	40-130	
13C8-PFOA (S)	%			86	40-130	
13C8-PFOS (S)	%			82	40-130	
13C8-PFOSA (S)	%			83	40-130	
13C9-PFNA (S)	%			84	40-130	
d3-MeFOSAA (S)	%			84	40-135	
d3-NMeFOSA (S)	%			73	10-130	
d5-EtFOSAA (S)	%			80	40-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Arlington HS

Pace Project No.: 10725098

LABORATORY CONTROL SAMPLE: 5189605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
d5-NEtFOSA (S)	%.			74	10-130	
d7-NMeFOSE (S)	%.			80	20-130	
d9-NEtFOSE (S)	%.			80	15-130	

LABORATORY CONTROL SAMPLE: 5189606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/kg	1.5	1.3	87	45-160	
3:3 FTCA	ug/kg	2	1.2	62	45-130	
4:2 FTS	ug/kg	1.5	1.3	86	60-150	
5:3 FTCA	ug/kg	9.9	7.9	79	60-130	
6:2 FTS	ug/kg	1.5	1.4	90	55-200	
7:3 FTCA	ug/kg	9.9	7.3	74	60-150	
8:2 FTS	ug/kg	1.5	1.5	94	70-150	
9CI-PF3ONS	ug/kg	1.5	1.3	89	70-150	
ADONA	ug/kg	1.5	1.3	90	70-160	
HFPO-DA	ug/kg	1.6	1.4	90	70-145	
NEtFOSA	ug/kg	0.38	0.35	91	70-140	
NEtFOSAA	ug/kg	0.38	0.33	86	65-165	
NEtFOSE	ug/kg	3.8	3.3	86	70-135	
NFDHA	ug/kg	0.8	0.70	88	60-155	
NMeFOSA	ug/kg	0.38	0.36	94	70-155	
NMeFOSAA	ug/kg	0.38	0.35	91	65-155	
NMeFOSE	ug/kg	3.8	3.4	89	70-140	
PFBA	ug/kg	1.6	1.4	85	70-140	
PFBS	ug/kg	0.35	0.30	86	65-145	
PFDA	ug/kg	0.38	0.34	89	70-155	
PFDoA	ug/kg	0.38	0.35	90	70-150	
PFDoS	ug/kg	0.38	0.30	79	25-160	
PFDS	ug/kg	0.38	0.33	85	40-155	
PFEESA	ug/kg	0.7	0.62	88	70-140	
PFHpA	ug/kg	0.38	0.35	90	65-145	
PFHpS	ug/kg	0.38	0.34	89	65-155	
PFHxA	ug/kg	0.38	0.33	85	65-140	
PFHxS	ug/kg	0.35	0.30	86	60-150	
PFMBA	ug/kg	0.8	0.69	86	60-150	
PFMPA	ug/kg	0.8	0.77	97	30-140	
PFNA	ug/kg	0.38	0.32	84	70-155	
PFNS	ug/kg	0.38	0.33	86	55-140	
PFOA	ug/kg	0.38	0.34	88	70-150	
PFOS	ug/kg	0.38	0.31	81	65-160	
PFOSA	ug/kg	0.38	0.34	89	70-140	
PFPeA	ug/kg	0.8	0.68	85	60-150	
PFPeS	ug/kg	0.38	0.32	84	55-160	
PFTeDA	ug/kg	0.38	0.36	93	65-150	

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QUALITY CONTROL DATA

Project: Arlington HS

Pace Project No.: 10725098

LABORATORY CONTROL SAMPLE: 5189606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PFTTrDA	ug/kg	0.38	0.33	85	65-150	
PFUnA	ug/kg	0.38	0.36	93	70-155	
13C2-PFDoA (S)	%.			88	40-130	
13C2-PFTA (S)	%.			78	20-130	
13C24:2FTS (S)	%.			110	40-135	
13C26:2FTS (S)	%.			87	40-215	
13C28:2FTS (S)	%.			84	40-275	
13C3-PFBS (S)	%.			98	40-135	
13C3-PFHxS (S)	%.			89	40-130	
13C3-PFPrA (S)	%.			38	8-130	
13C3HFPO-DA (S)	%.			85	40-130	
13C4-PFBA (S)	%.			64	8-130	
13C4-PFHpA (S)	%.			86	40-130	
13C5-PFHxA (S)	%.			88	40-130	
13C5-PFPeA (S)	%.			88	35-130	
13C6-PFDA (S)	%.			94	40-130	
13C7-PFUdA (S)	%.			94	40-130	
13C8-PFOA (S)	%.			89	40-130	
13C8-PFOS (S)	%.			89	40-130	
13C8-PFOSA (S)	%.			85	40-130	
13C9-PFNA (S)	%.			91	40-130	
d3-MeFOSAA (S)	%.			89	40-135	
d3-NMeFOSA (S)	%.			73	10-130	
d5-EtFOSAA (S)	%.			86	40-150	
d5-NEtFOSA (S)	%.			76	10-130	
d7-NMeFOSE (S)	%.			81	20-130	
d9-NEtFOSE (S)	%.			81	15-130	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Arlington HS
Pace Project No.: 10725098

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10725098
[1] The enclosed data is not intended for regulatory compliance; certification was waived by the client.

SAMPLE QUALIFIERS

Sample: 10725098001
[1] Sample was cryomilled prior to extraction based on the Pace Analytical SOP for handling consumer products.

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.
S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Arlington HS
Pace Project No.: 10725098

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10725098001	Crumb Rubber	EPA 3050B	995928	EPA 6010D	996059
10725098001	Crumb Rubber	EPA 7471B	996644	EPA 7471B	997257
10725098001	Crumb Rubber	EPA 1633	994895	EPA 1633	995770

REPORT OF LABORATORY ANALYSIS

ENV-FRM-MIN4-0150 v17 Sample Condition Upon Receipt

CLIENT NAME: Crumb Rubber PROJECT #:

WO#: 10725098

COURIER: ☐ Client ☐ Commercial ☒ FedEx ☐ Pace
☐ Speedee ☐ UPS ☐ USPS

PM: KNH Due Date: 03/28/25
 CLIENT: Sprinturf

TRACKING NUMBER: 7722 8240 1505 ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☐ YES ☒ NO Seals Intact: ☐ YES ☒ NO Biological Tissue Frozen: ☐ YES ☐ NO ☒ N/A
 Packing Material: ☒ Bubble Bags ☐ Bubble Wrap ☐ None ☐ Other Temp Blank: ☐ YES ☒ NO Type of Ice: ☐ Blue ☐ Dry ☐ Wet
 Thermometer: ☒ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235)
☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710) ☐ Melted ☒ None

Did Samples Originate in West Virginia: ☐ YES ☒ NO Were All Container Temps taken: ☐ YES ☐ NO ☒ N/A
 Correction Factor: -0.1 Cooler Temp Read w/Temp Blank: _____ °C
 Cooler Temp Corrected w/Temp Blank: _____ °C
 NOTE: Temp should be above freezing to 6°C. ☐ See Exceptions Form ENV-FRM-MIN4-0142 ☒ 1 Container

USDA Regulated Soil: ☒ N/A - Water Sample/Other (describe): Product Initials & Date of Person Examining Contents: NEVM 2/28/25
 Did Samples originate from one of the following states (check map) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☐ NO Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☐ NO
 NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one):	YES	NO	N/A	COMMENT(S)								
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. 3/3/25 COC received after log-in								
Chain of Custody Relinquished?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.								
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. CMB 3/3/25								
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No								
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other:								
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.								
Sufficient Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.								
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.								
- Pace Containers Used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9.								
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO								
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11. If NO, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input type="checkbox"/> Water <input checked="" type="checkbox"/> Other <u>product</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. Sample #: <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO pH Paper Lot # <table border="1"> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip				
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip									
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS NOTE: If adding preservation to the container, verify with the PM first. Clients may require adding preservative to the field and equipment blanks when this occurs.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.								
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.								
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.								
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140								
Trip Blanks Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pace Trip Blank Lot # (if purchased):								
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									

CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager: Kirsten Johnson

Date: 3/3/2025

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: NEVM Line: 2



78 LONDONDERRY TPK UNIT D5
HOOKSETT, NH 03106
PHONE: (603) 715-5453
EMAIL: CONTACT@FIREFLYSPORTSTESTING.COM
WEBSITE: WWW.FIREFLYSPORTSTESTING.COM

Laboratory Test Report

Arlington-Crumb Rubber

Job No.	100675/10850
Client Information	Sprinturf 146 Fairchild St Suite 150 Daniel Island, SC 29492
Outsource Laboratory Information	Eurofins MTS Consumer Product Testing US, Inc. 349 Lenox Street Norwood, MA 02062
Test Method	ASTM F3188 Standard Specification for Extractable Hazardous Metals in Synthetic Turf Infill Materials
Sample Arrival Date	5/12/2025
Test Date(s)	5/27/2025-6/2/2025
Report Date	6/3/2025 (Eurofins Rev. 6/3/2025)
Report Status	Final

Prepared by Adam Kalil
Laboratory Manager

Checked by Megan Illsley
Laboratory Director

- Notes:
1. This report has been prepared by Firefly Sports Testing with all reasonable skill, care and diligence within the terms of the contract with the Client and within the limitations of the resources devoted to it.
 2. This report is confidential to the Client and Firefly Sports Testing accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.
 3. This report shall not be used for engineering or contractual purposes unless signed by the Author and the Checker and unless the report status is "Final."



LAB LOCATION: Norwood, MA USA

DATE IN: May 27, 2025

REPORT NUMBER: 67425-050093-R1

DATE OUT: June 02, 2025

REVISION DATE: June 03, 2025

To:	Firefly Sports Testing		
Contact:	Adam Kalil		
Address:	78 Londonderry Tpk. Unit D5 Hooksett, NH 03106 United States		
Tel:	6037155453	Fax:	/
E-mail:	contact@fireflysportstesting.com		
Copy To:	/		

<u>OVERALL RATING</u>	
SATISFACTORY	X
UNSATISFACTORY	
Subject to Client's Approval	
<p>NOTE: RATING IS BASED ON TESTING LAB RESULTS. FINAL ACCEPTANCE OR REJECTION IS PER CLIENT ONLY.</p>	

Sample Information			
Product Description:	100675-Arlington-Crumb Rubber		
Item/ Style Number:	202505114-1		
Purchase Order Number:	200011543	No. of Sample Submitted:	-
Lot/Batch/Tracking Info:	-	Date of Manufacture:	-
Country of Origin:	USA	Country of Destination:	-
Vendor/ Agent:	-	Manufacturer:	Sprinturf

Testing Status							
<input type="checkbox"/>	Pre-production	<input checked="" type="checkbox"/>	Production	<input type="checkbox"/>	Retest	<input type="checkbox"/>	Previous Report No.:
Other/ Comments: A revision was made on June 03, 2025, to split up the original report by test type into two separate reports: 67425-050093-R1 (ASTM F3188-16) and 67425-050093-R2 (CAM 17 Metals).							

For and on behalf of
Eurofins MTS Consumer Product Testing US, LLC
 (Norwood, MA)

John R. Gerringer

John Gerringer, Analytical Director

Eurofins MTS' smart screening approach is a restricted substance pre-screening method that effectively ensures compliance for any countries that do not require mandatory certification test reports based on a specified test method. Any positive detection results from the screening test will trigger individual tests to be performed according to the preferred test method of the country that restricts the detected substance. For any countries that require mandatory certification test reports based on a specified test method, individual tests will be performed according to the specified test methods to ensure compliance.

Sample Photo:



Testing Result Summary				
Test Property	SAT	UNSAT	Subject to Client's Approval	COMMENTS
ASTM F3188-16 Extractable Hazardous Metals	PASS	FAIL		See Test Results Below

COMPONENT BREAKDOWN LIST:

Test Item(s)	Component Description
A	100675-Arlington-Crumb Rubber
A1	100675-Arlington-Crumb Rubber

TEST RESULTS:**ASTM 3188-16 Extractable Hazardous Metals in Synthetic Turf Infill Materials**

Test Item	Result – Soluble Heavy Metals (mg/kg)								Conclusion
	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	
A1	<10	<10	<10	<10	<10	<10	<10	<10	PASS
Limits	60	25	1000	75	60	90	60	500	-

Sb = Antimony, As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium

Method: ASTM 3188-16 The heavy metals content was determined by Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Plasma Mass Spectrometer.

Note: mg/kg = milligram per kilogram
 mg = milligram
 "<" = less than
 NA = Not applicable

****End of Test Report****

NOTE:

If there is question or concern regarding the above results, please contact the lab person below:

Technical question & concern:

John Gerringer

Director - Analytical

Phone: 508-638-1793

John.Gerringer@cpt.Eurofinsus.com

This test report is governed by the Terms and Conditions, available on request or attached to the end of this test report. Attention is especially drawn to the limitations of liability, indemnification and jurisdictional provisions defined therein. This report is issued strictly based on the testing of the samples submitted by you. The test results in this report refer only to the sample(s) actually tested and do not refer or be deemed to refer to any bulk production from which such sample(s) may be said to have been obtained. In the event that Eurofins MTS Consumer Product Testing US, LLC ("ERF") was requested to survey and test any bulk production quantity of samples, ERF, in the absence of any contrary written instructions, performed random sampling of bulk production for testing purposes. Variations in the conditions under which samples are stored, transported, etc., may lead to variations in the test results. ERF cannot anticipate and shall not be held responsible for variations in test results that may be due to factors beyond ERF's control, such as, sample cross-contamination, evaporation of volatile substances due to storage temperature, humidity, etc. This report does not constitute a recommendation, actual or implied, for any specific course of action. Other than the expressed warranties made in the Terms and Conditions of the ERF Test Request Form, ERF makes no warranties or representations either expressed or implied with respect to this report. In no circumstances whatsoever shall ERF be liable for any consequential, special, or incidental damages arising out of, or in connection with, this report.



78 LONDONDERRY TPK UNIT D5

HOOKSETT, NH 03106

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WEBSITE: WWW.FIREFLYSPORTSTESTING.COM

Laboratory Test Report

Arlington-Field Green/Lime Green Blend Synthetic Turf

Job No.	100673/10848
Client Information	Sprinturf 146 Fairchild St Suite 150 Daniel Island, SC 29492
Outsource Laboratory Information	Eurofins MTS Consumer Product Testing US, Inc. 349 Lenox Street Norwood, MA 02062
Test Method	ASTM F2765 Standard Specification for Total Lead Content in Synthetic Turf Fibers
Sample Arrival Date	5/12/2025
Test Date(s)	5/15/2025-5/22/2025
Report Date	5/27/2025
Report Status	Final

Prepared by

Adam Kalil

Laboratory Manager

Checked by

Jeffrey Gentile

Co-Founder & CFO

Notes:

1. This report has been prepared by Firefly Sports Testing with all reasonable skill, care and diligence within the terms of the contract with the Client and within the limitations of the resources devoted to it.
2. This report is confidential to the Client and Firefly Sports Testing accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.
3. This report shall not be used for engineering or contractual purposes unless signed by the Author and the Checker and unless the report status is "Final."



LAB LOCATION: Norwood, MA USA**DATE IN: May 15, 2025****REPORT NUMBER: 67425-05006-1****DATE OUT: May 22, 2025**

To:	Firefly Sports Testing		
Contact:	Adam Kalil		
Address:	78 Londonderry Tpk. Unit D5 Hooksett, NH 03106 United States		
Tel:	6037155453	Fax:	/
E-mail:	contact@fireflysportstesting.com		
Copy To:	/		

OVERALL RATING**SATISFACTORY** **X****UNSATISFACTORY****Subject to Client's Approval****NOTE: RATING IS BASED ON TESTING LAB RESULTS. FINAL ACCEPTANCE OR REJECTION IS PER CLIENT ONLY.****Sample Information**

Product Description:	100673-Arlington-Field Green/Lime Green Blend		
Item/ Style Number:	202505071-1		
Purchase Order Number:	200011379	No. of Sample Submitted:	5
Lot/Batch/Tracking Info:	-	Date of Manufacture:	-
Country of Origin:	USA	Country of Destination:	-
Vendor/ Agent:	-	Manufacturer:	Sprinturf

Testing Status

<input type="checkbox"/> Pre-production	<input checked="" type="checkbox"/> Production	<input type="checkbox"/> Retest	<input type="checkbox"/> Previous Report No.:	
Other/ Comments:				

*For and on behalf of***Eurofins MTS Consumer Product Testing US, LLC
(Norwood, MA)***John R. Gerringer***John Gerringer, Analytical Director**

Eurofins MTS' smart screening approach is a restricted substance pre-screening method that effectively ensures compliance for any countries that do not require mandatory certification test reports based on a specified test method. Any positive detection results from the screening test will trigger individual tests to be performed according to the preferred test method of the country that restricts the detected substance. For any countries that require mandatory certification test reports based on a specified test method, individual tests will be performed according to the specified test methods to ensure compliance.

Sample Photo:**Testing Result Summary**

Test Property	SAT	UNSAT	Subject to Client's Approval	COMMENTS
	PASS	FAIL		
ASTM 2765 Lead Content in Synthetic Turf Fibers	X			See Test Results Below

COMPONENT BREAKDOWN LIST:

Test Item(s)	Component Description
A	Turf Samples
A1	100673-Arlington-Field Green/Lime Green Blend (Grass)
A2	100673-Arlington-Field Green/Lime Green Blend (Base)

TEST RESULTS:**Total Lead Content – Client's Requirement with reference to ASTM F2765 Total Lead Content in Synthetic Turf Fibers**

Test Item	Accessibility (Remark 1)	Classification	Total Lead (Pb) (ppm)		Conclusion
			Result	Limit	
A1	Accessible as received	Accessible substrate	<10	100	PASS
A2	Accessible as received	Accessible substrate	<10	100	PASS

Method: With reference to US EPA 3052. The lead content was analyzed by Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Mass Spectrometer.

Note: ppm = part per million = mg/kg (milligram per kilogram)

Eurofins MTS Consumer Product Testing US, LLC

349 Lenox Street, Norwood, MA 02062, USA

Tel: (508) 638-1793 Fax: (508) 638-1759

“<” = less than

****End of Test Report******NOTE:****If there is question or concern regarding the above results, please contact the lab person below:****Technical question & concern:**

John Gerringer

Director - Analytical

Phone: 508-638-1793

John.Gerringer@cpt.Eurofinsus.com

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Laboratory Test Report

Arlington-Vegas Gold Synthetic Turf

Job No.	100674/10849
Client Information	Sprinturf 146 Fairchild St Suite 150 Daniel Island, SC 29492
Outsource Laboratory Information	Eurofins MTS Consumer Product Testing US, Inc. 349 Lenox Street Norwood, MA 02062
Test Method	ASTM F2765 Standard Specification for Total Lead Content in Synthetic Turf Fibers
Sample Arrival Date	5/12/2025
Test Date(s)	5/15/2025-5/22/2025
Report Date	5/27/2025
Report Status	Final

Prepared by

Adam Kalil

Laboratory Manager

Checked by

Jeffrey Gentile

Co-Founder & CFO

Notes:

1. This report has been prepared by Firefly Sports Testing with all reasonable skill, care and diligence within the terms of the contract with the Client and within the limitations of the resources devoted to it.
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LAB LOCATION: Norwood, MA USA**DATE IN: May 15, 2025****REPORT NUMBER: 67425-050060-2****DATE OUT: May 22, 2025**

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OVERALL RATING**SATISFACTORY** **X****UNSATISFACTORY****Subject to Client's Approval****NOTE: RATING IS BASED ON TESTING LAB RESULTS. FINAL ACCEPTANCE OR REJECTION IS PER CLIENT ONLY.****Sample Information**

Product Description:	100674-Arlington-Vegas Gold		
Item/ Style Number:	202505071-2		
Purchase Order Number:	200011379	No. of Sample Submitted:	5
Lot/Batch/Tracking Info:	-	Date of Manufacture:	-
Country of Origin:	USA	Country of Destination:	-
Vendor/ Agent:	-	Manufacturer:	Sprinturf

Testing Status

<input type="checkbox"/> Pre-production	<input checked="" type="checkbox"/> Production	<input type="checkbox"/> Retest	<input type="checkbox"/> Previous Report No.:	
Other/ Comments:				

For and on behalf of

**Eurofins MTS Consumer Product Testing US, LLC
(Norwood, MA)***John R. Gerringer***John Gerringer, Analytical Director**

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Sample Photo:



Testing Result Summary

Test Property	SAT	UNSAT	Subject to Client's Approval	COMMENTS
	PASS	FAIL		
ASTM 2765 Lead Content in Synthetic Turf Fibers	X			See Test Results Below

COMPONENT BREAKDOWN LIST:

Test Item(s)	Component Description
A	Turf Samples
A3	100674-Arlington-Vegas Gold (Grass)
A4	100674-Arlington-Vegas Gold (Base)

TEST RESULTS:

Total Lead Content – Client's Requirement with reference to ASTM F2765 Total Lead Content in Synthetic Turf Fibers

Test Item	Accessibility (Remark 1)	Classification	Total Lead (Pb) (ppm)		Conclusion
			Result	Limit	
A3	Accessible as received	Accessible substrate	<10	100	PASS
A4	Accessible as received	Accessible substrate	<10	100	PASS

Method: With reference to US EPA 3052. The lead content was analyzed by Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Mass Spectrometer.

Note: ppm = part per million = mg/kg (milligram per kilogram)

Eurofins MTS Consumer Product Testing US, LLC

349 Lenox Street, Norwood, MA 02062, USA

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“<” = less than

****End of Test Report******NOTE:****If there is question or concern regarding the above results, please contact the lab person below:****Technical question & concern:**

John Gerringer

Director - Analytical

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Laboratory Test Report

Arlington-Maroon Synthetic Turf

Job No.	100676/10851
Client Information	Sprinturf 146 Fairchild St Suite 150 Daniel Island, SC 29492
Outsource Laboratory Information	Eurofins MTS Consumer Product Testing US, Inc. 349 Lenox Street Norwood, MA 02062
Test Method	ASTM F2765 Standard Specification for Total Lead Content in Synthetic Turf Fibers
Sample Arrival Date	5/12/2025
Test Date(s)	5/15/2025-5/22/2025
Report Date	5/27/2025
Report Status	Final

Prepared by	Adam Kalil Laboratory Manager		Checked by	Jeffrey Gentile Co-Founder & CFO	
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Notes:

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LAB LOCATION: Norwood, MA USA

REPORT NUMBER: 67425-050060

DATE IN: May 15, 2025

DATE OUT: May 22, 2025

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OVERALL RATINGSATISFACTORY X

UNSATISFACTORY

Subject to Client's Approval

NOTE: RATING IS BASED ON TESTING LAB RESULTS. FINAL ACCEPTANCE OR REJECTION IS PER CLIENT ONLY.

Sample Information

Product Description:	100676-Arlington-Maroon		
Item/ Style Number:	202505071-5		
Purchase Order Number:	200011379	No. of Sample Submitted:	5
Lot/Batch/Tracking Info:	-	Date of Manufacture:	-
Country of Origin:	USA	Country of Destination:	-
Vendor/ Agent:	-	Manufacturer:	Sprinturf

Testing Status

<input type="checkbox"/> Pre-production	<input checked="" type="checkbox"/> Production	<input type="checkbox"/> Retest	<input type="checkbox"/> Previous Report No.:	
Other/ Comments:				

For and on behalf of

Eurofins MTS Consumer Product Testing US, LLC
(Norwood, MA)


John Gerringer, Analytical Director

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Sample Photo:**Testing Result Summary**

Test Property	SAT	UNSAT	Subject to Client's Approval	COMMENTS
	PASS	FAIL		
ASTM 2765 Lead Content in Synthetic Turf Fibers	X			See Test Results Below

COMPONENT BREAKDOWN LIST:

Test Item(s)	Component Description
A	Turf Samples
A9	100676-Arlington-Maroon (Grass)
A10	100676-Arlington-Maroon (Base)

TEST RESULTS:**Total Lead Content – Client's Requirement with reference to ASTM F2765 Total Lead Content in Synthetic Turf Fibers**

Test Item	Accessibility (Remark 1)	Classification	Total Lead (Pb) (ppm)		Conclusion
			Result	Limit	
A9	Accessible as received	Accessible substrate	<10	100	PASS
A10	Accessible as received	Accessible substrate	<10	100	PASS

Method: With reference to US EPA 3052. The lead content was analyzed by Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Mass Spectrometer.

Note: ppm = part per million = mg/kg (milligram per kilogram)
" < " = less than

****End of Test Report******NOTE:**

If there is question or concern regarding the above results, please contact the lab person below:

Technical question & concern:

John Gerringer

Director - Analytical

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Laboratory Test Report

Arlington-White Synthetic Turf

Job No.	100677/10852
Client Information	Sprinturf 146 Fairchild St Suite 150 Daniel Island, SC 29492
Outsource Laboratory Information	Eurofins MTS Consumer Product Testing US, Inc. 349 Lenox Street Norwood, MA 02062
Test Method	ASTM F2765 Standard Specification for Total Lead Content in Synthetic Turf Fibers
Sample Arrival Date	5/12/2025
Test Date(s)	5/15/2025-5/22/2025
Report Date	5/27/2025
Report Status	Final

Prepared by

Adam Kalil

Laboratory Manager

Checked by

Jeffrey Gentile

Co-Founder & CFO

Notes:

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LAB LOCATION: Norwood, MA USA**DATE IN: May 15, 2025****REPORT NUMBER: 67425-050060-3****DATE OUT: May 22, 2025**

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OVERALL RATING**SATISFACTORY** **X****UNSATISFACTORY****Subject to Client's Approval****NOTE: RATING IS BASED ON TESTING LAB RESULTS. FINAL ACCEPTANCE OR REJECTION IS PER CLIENT ONLY.****Sample Information**

Product Description:	100677-Arlington-White		
Item/ Style Number:	202505071-3		
Purchase Order Number:	200011379	No. of Sample Submitted:	5
Lot/Batch/Tracking Info:	-	Date of Manufacture:	-
Country of Origin:	USA	Country of Destination:	-
Vendor/ Agent:	-	Manufacturer:	Sprinturf

Testing Status

<input type="checkbox"/> Pre-production	<input checked="" type="checkbox"/> Production	<input type="checkbox"/> Retest	<input type="checkbox"/> Previous Report No.:	
Other/ Comments:				

For and on behalf of

**Eurofins MTS Consumer Product Testing US, LLC
(Norwood, MA)***John R. Gerringer***John Gerringer, Analytical Director**

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Sample Photo:**Testing Result Summary**

Test Property	SAT	UNSAT	Subject to Client's Approval	COMMENTS
	PASS	FAIL		
ASTM 2765 Lead Content in Synthetic Turf Fibers	X			See Test Results Below

COMPONENT BREAKDOWN LIST:

Test Item(s)	Component Description
A	Turf Samples
A5	100677-Arlington-White (Grass)
A6	100677-Arlington-White (Base)

TEST RESULTS:**Total Lead Content – Client's Requirement with reference to ASTM F2765 Total Lead Content in Synthetic Turf Fibers**

Test Item	Accessibility (Remark 1)	Classification	Total Lead (Pb) (ppm)		Conclusion
			Result	Limit	
A5	Accessible as received	Accessible substrate	<10	100	PASS
A6	Accessible as received	Accessible substrate	<10	100	PASS

Method: With reference to US EPA 3052. The lead content was analyzed by Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Mass Spectrometer.

Note: ppm = part per million = mg/kg (milligram per kilogram)
 "<" = less than

****End of Test Report******NOTE:**

If there is question or concern regarding the above results, please contact the lab person below:

Technical question & concern:

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Director - Analytical

Phone: 508-638-1793

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Laboratory Test Report

Arlington-Gray Synthetic Turf

Job No.	100678/10853
Client Information	Sprinturf 146 Fairchild St Suite 150 Daniel Island, SC 29492
Outsource Laboratory Information	Eurofins MTS Consumer Product Testing US, Inc. 349 Lenox Street Norwood, MA 02062
Test Method	ASTM F2765 Standard Specification for Total Lead Content in Synthetic Turf Fibers
Sample Arrival Date	5/12/2025
Test Date(s)	5/15/2025-5/22/2025
Report Date	5/27/2025
Report Status	Final

Prepared by

Adam Kalil

Laboratory Manager

Checked by

Jeffrey Gentile

Co-Founder & CFO

Notes:

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LAB LOCATION: Norwood, MA USA**DATE IN: May 15, 2025****REPORT NUMBER: 67425-050060****DATE OUT: May 22, 2025**

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OVERALL RATING**SATISFACTORY** **X****UNSATISFACTORY****Subject to Client's Approval****NOTE: RATING IS BASED ON TESTING LAB RESULTS. FINAL ACCEPTANCE OR REJECTION IS PER CLIENT ONLY.****Sample Information**

Product Description:	100678-Arlington-Gray		
Item/ Style Number:	202505071-4		
Purchase Order Number:	200011379	No. of Sample Submitted:	5
Lot/Batch/Tracking Info:	-	Date of Manufacture:	-
Country of Origin:	USA	Country of Destination:	-
Vendor/ Agent:	-	Manufacturer:	Sprinturf

Testing Status

<input type="checkbox"/> Pre-production	<input checked="" type="checkbox"/> Production	<input type="checkbox"/> Retest	<input type="checkbox"/> Previous Report No.:	
Other/ Comments:				

For and on behalf of

**Eurofins MTS Consumer Product Testing US, LLC
(Norwood, MA)***John R. Gerringer***John Gerringer, Analytical Director**

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Sample Photo:**Testing Result Summary**

Test Property	SAT	UNSAT	Subject to Client's Approval	COMMENTS
	PASS	FAIL		
ASTM 2765 Lead Content in Synthetic Turf Fibers	X			See Test Results Below

COMPONENT BREAKDOWN LIST:

Test Item(s)	Component Description
A	Turf Samples
A7	100678-Arlington-Gray (Grass)
A8	100678-Arlington-Gray (Base)

TEST RESULTS:**Total Lead Content – Client's Requirement with reference to ASTM F2765 Total Lead Content in Synthetic Turf Fibers**

Test Item	Accessibility (Remark 1)	Classification	Total Lead (Pb) (ppm)		Conclusion
			Result	Limit	
A7	Accessible as received	Accessible substrate	<10	100	PASS
A8	Accessible as received	Accessible substrate	<10	100	PASS

Method: With reference to US EPA 3052. The lead content was analyzed by Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Mass Spectrometer.

Note: ppm = part per million = mg/kg (milligram per kilogram)
 "<" = less than

****End of Test Report******NOTE:**

If there is question or concern regarding the above results, please contact the lab person below:

Technical question & concern:

John Gerringer

Director - Analytical

Phone: 508-638-1793

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AHS Permit DEP #091-0323

Special Condition #57 Testing Requirements

- I. Metals: CAM 17 – Acceptable**
- II. Lead: ASTM 2765 – Acceptable based on CAM 17**
- III. Metals: ASTM 3188 – Acceptable**
- IV. PFAS: EPA 1633 (technically acceptable compared to EPA 537.1 modified) – Acceptable**
- V. Volatile Organic Compounds (VOCs): EPA 8260D (technically acceptable compared to 8260B / 8260C) – Acceptable**
- VI. Semivolatile Organic Compounds (SVOCs): EPA 8270D – Not Acceptable (due to high reporting limits)**

Additional Discussion

#57. I. Zinc

Conclusion:

Based on the CAM 17 soil standard of 23,000 milligrams/kilogram (mg/Kg), the zinc concentration of 13,600 mg/Kg reported by Pace Lab in the tire crumb rubber is compliant with the AHSBC permit condition #57.

Discussion:

I did note in our discussion that this soil standard is based on human health and not aquatic harm. This soil standard also is significantly greater than the MassDEP MCP Method 1 standards for the protection of soil of 1,000 mg/Kg (for S1, S2, and S3 classified soils). Therefore, for me to understand the potential for zinc in tire crumb rubber to leach to the protected adjacent upland resource area (AURA) of Mill Brook and ultimately to the brook itself, I researched two other artificial turf projects that have received wetland permits in MA. These were for Wilmington High School DEP#344-1233 and The Fenn School DEP #137-1032.

Commissioner Nathaniel Stevens, Esq., assisted me in obtaining monitoring data from the Fenn School, which received a Superseding Order of Conditions (SOC) from MassDEP #137-1032 that required monitoring of metals for evaluation of potential contamination to groundwater from an artificial turf field with tire crumb rubber infill within Riverfront area. The Metals results were required to meet the Ambient Water Quality Criteria or the MassDEP MCP GW-3 standard. The summary data (shared with Jim Feeney and AHSBC representatives) show that zinc concentrations in the monitoring wells were consistently lower than the MCP GW-3 standard of 900 micrograms/liter (µg/L) and consistently lower than the EPA National Ambient Water

Quality Criteria (NAWQC), which ranged from 63 to 77 µg/L at the locations tested (NAWQC varies with hardness for metals).

Based on these results, I am comfortable that the zinc in the tire crumb rubber proposed to be used at this AHS field may not be expected to leach to groundwater at a level that would harm the resource area. That said, we don't have data to evaluate the potential for the zinc-to-surface-water pathway. Additionally, site-specific differences in soil absorption of zinc and distance of the discharge from the resource areas at the Finn School project vs. AHS project cannot be accounted for in this assessment.

I will note for the record that I do not agree with the “dismissal” of the CTDEP Study¹ results because three of the fields had urban inputs in addition to the artificial turf stormwater. CTDEP acknowledged this observation and compared the levels of zinc in urban runoff (see Table 1 of the report) to concentrations detected in artificial turf discharge. They concluded “Since zinc concentrations in the runoff from artificial turf fields are consistent with those associated with urban runoff, it would be a logical step to apply the same best management practices (BMPs) to mitigate the toxicity effects to surface waters.” They discussed additional lines-of-evidence (other peer-reviewed studies and the chemical/physical characteristics of zinc compounds in leachate, stormwater, and soil) and concluded:

“The DEP concludes that there is a potential risk to surface waters and aquatic organisms associated with whole effluent and zinc toxicity of stormwater runoff from artificial turf fields. Zinc concentrations in the stormwater may cause exceedances of the acute aquatic toxicity criteria for receiving surface waters, especially smaller watercourses.”

VOCs and SVOCs

#57.V. VOCs

Conclusion:

The VOC results are acceptable compared to the permit condition and the MCP Method 1 regulatory standards (S1/GW1 as specified in #57.V.) for the turf carpet and tire crumb rubber infill samples.

Discussion:

Method SW8260D was performed for all components tested and reported in units of µg/Kg (MCP Standards S1/GW1 are in mg/Kg). The reporting limits for the turf carpet and tire crumb

¹CTDEP, July 2010: Artificial Turf Study: Leachate and Stormwater Characteristics
<https://portal.ct.gov/-/media/DEEP/artificialturf/DEPArtificialTurfReportpdf.pdf>

rubber samples are low enough to compare to the standards. The 6 detected VOC results found in the tire crumb rubber sample are all below the associated regulatory standards.

#57.VI. SVOCs

Conclusion:

The non-detect results reported for 22 SVOCs in the turf carpet samples and 25 SVOCs in the tire crumb rubber sample are not acceptable since they do not meet the reporting limit requirements of #57.VI and the RLs are too high compared to the MCP standards. See the attached tabulated results.

Discussion:

EPA Method SW8270D was performed for all components tested and results reported in units of $\mu\text{g/Kg}$ (MCP Standards S1/GW1 are in mg/Kg). According to the lab reporting form for the samples, testing was performed at a 10-fold dilution for the turf carpet samples and at a 3-fold dilution for the tire crumb rubber. Five compounds in the tire crumb rubber sample were detected; all remaining results in the tire crumb rubber and all results reported for the SVOCs in the carpet samples were reported as non-detected (ND). For the five detected results, they are either below the regulatory standards or there was no associated standard – so the detected results are acceptable. However, many results reported as ND for both the tire crumb rubber and the turf carpet samples were too high to compare to the regulatory standard and did not meet the reporting limit requirements listed in #57.VI. for SVOCs.

Reporting limits (RLs) achieved for the turf carpet samples ranged from 3,200 – 17,000 $\mu\text{g/Kg}$ (3.2 – 17 mg/kg) and for the tire crumb rubber ranged from 4,800 – 25,000 $\mu\text{g/Kg}$. The reporting limits in the associated Method Blank (160 – 8,300 $\mu\text{g/Kg}$) are even lower than these dilution factors of 3x and 10x in the associated samples would suggest (*e.g.*, $3 \times 160 = 480 \mu\text{g/Kg}$ for the tire crumb rubber; however, the lowest RL achieved was 4,800 $\mu\text{g/Kg}$) indicating that there were additional dilutions for these samples above and beyond the dilution factors reported on the laboratory reporting forms. An explanation of why these samples required the dilutions and how these dilutions occurred was not given in the laboratory narrative. Regardless, the reporting limits achieved for non-detected (ND) results in 22 SVOCs in the turf carpet samples and 25 SVOCs in the tire crumb rubber are too high, some by an order-of-magnitude, to be compared to the MCP Standards. See the attached tabulated results. This means that we can't be certain if these compounds reported as ND with high RLs are present at a level that might exceed the regulatory standards in the turf carpet and tire crumb rubber infill samples.

I recommend one of the following.

1. A path forward consistent with what we did to evaluate the potential for VOCs and SVOCs to leach from the installation of poured-in-place rubber surfaces (PIP) at Spy Pond Park. We had a similar situation where sample reporting limits were too high to be certain that non-detect (ND) results were actually below the regulatory standard. We asked the lab to re-analyze the materials using the synthetic precipitation leaching procedure (SPLP) EPA Method 1312 to meet MCP standards (data available in the project file and shared with Jim Feeney and AHSBC members). All regulated VOCs and SVOCs met these standards in the leachate and the testing results were considered to meet the intent of the permit condition without the need for an amended order of conditions. I also have communications to Joe (former Director of Park & Rec) from March 16, 2023, about this testing change in relation to permit compliance.
2. An alternate path forward would be to test for SVOCs in the stormwater discharge, along with the requirement to test for 6PPD-quinone, similar to permit conditions #59-63, with an update to add SVOCs and the applicable regulatory standards, being the lower of either the National Ambient Water Quality Criteria (NAWC) for Freshwater – Acute or the MassDEP MCP Method 1 Standard for GW3 – since these regulations are consistent with MassDEP SOC permit conditions for prior artificial turf fields.

This approach would require mitigation for any exceedances, as required in permit condition #63:

“In the event that the monitoring result(s) exceed the regulatory standard, the Applicant shall evaluate response actions with a goal of restoring 6PPD-quinone [*add SVOCs*] levels to below the regulatory standard. Such actions could include modification of the field drainage system, green infrastructure, replacing the infill material with an alternative infill, or replacement of the artificial turf field with natural turf.”

Susan D. Chapnick, M.S. – Bio

Susan Chapnick is President and Principal Scientist of New Environmental Horizons, Inc. (NEH), an environmental chemistry consulting firm specializing in the planning and evaluation of environmental data. She is recognized as a technical expert with over 30 years of experience in analytical chemistry and quality assurance of environmental measurements for complex investigations in support of Natural Resource Damage Assessments, USEPA Superfund, US Army Corps of Engineers, and state-led programs. Ms. Chapnick received the Conservation Commissioner of the Year Award in March 2025 “for extraordinary contributions to natural resource protection in the Commonwealth of Massachusetts” by the Massachusetts Association of Conservation Commissions (MACC). Ms. Chapnick also leads local policy changes towards Climate Change Resilience and adaptation planning in wetland resource areas as the current Vice-Chair (and former Chair) of the Conservation Commission in the Town of Arlington, MA. She has co-taught several workshops in 2024 and 2025 on considerations in permitting artificial turf fields and has presented case studies for MACC. Additionally, Ms. Chapnick serves on the Science Advisory Committee for the MassDEP Bureau of Waste Site Cleanup where she champions scientific integrity in the development of environmental regulations and technical guidance for site cleanups and climate change resilience in the Commonwealth. Ms. Chapnick holds a Master of Science in Marine Science from the University of South Carolina and a Bachelor’s degree in Biological Sciences from Barnard College, Columbia University, New York.

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AHSBC Artificial Turf - Carpet Tire Crumb Rubber Testing Results Table

Parameter	MCP - Method 1 Standards (2024)	CA OEHHA Soil Screening #s Residential	Turf Carpet Samples					Tire Crumb Rubber
	S-1/GW-1	mg/Kg	FG/LG Blend	White	Gray	Vegas Gold	Maroon	mg/Kg
EPA SW-846 6010D (mg/Kg)	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
ZINC	1000	23000	477	ND (5000)	ND (5000)	ND (5000)	ND (5000)	13600
EPA SW-846 8270D (mg/Kg)								
ACENAPHTHENE	4		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
ACENAPHTHYLENE	2		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
ANILINE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	5.1
ANTHRACENE	1000		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
BENZIDINE	~		ND (17)	ND (17)	ND (17)	ND (17)	ND (17)	ND (25)
BENZO(A)ANTHRACENE	20		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
BENZO(A)PYRENE	2		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
BENZO(B)FLUORANTHENE	7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
BENZO(G,H,I)PERYLENE	1000		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
BENZOIC ACID	~		ND (17)	ND (17)	ND (17)	ND (17)	ND (17)	ND (25)
BENZO(K)FLUORANTHENE	200		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
BENZYL ALCOHOL	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
1,1-BIPHENYL	0.05		NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
BIS(2-CHLOROETHYL)ETHER	0.7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
BIS(2-CHLOROISOPROPYL)ETHER	0.7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
BIS(2-ETHYLHEXYL)PHTHALATE	100		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
4-BROMOPHENYL PHENYL ETHER	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
BUTYLBENZYLPHTHALATE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
CARBAZOLE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
4-CHLOROANILINE	1		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
4-CHLORO-3-METHYLPHENOL	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
2-CHLORONAPHTHALENE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
4-CHLOROPHENYL PHENYL ETHER	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
2-CHLOROPHENOL	0.7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
CHRYSENE	200		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
DIBENZ(A,H)ANTHRACENE	2		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
DIBENZOFURAN	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
DI-N-BUTYLPHTHALATE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
1,2-DICHLOROBEZENE	9		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
1,3-DICHLOROBEZENE	3		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
1,4-DICHLOROBEZENE	0.7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
3,3'-DICHLOROBEZIDINE	3		ND (17)	ND (17)	ND (17)	ND (17)	ND (17)	ND (25)
2,4-DICHLOROPHENOL	0.7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
2,6-DICHLOROPHENOL	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
DIETHYL PHTHALATE	10		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
2,4-DIMETHYLPHENOL	0.7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
DIMETHYLPHTHALATE	0.7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
2,4-DINITROPHENOL	3		ND (17)	ND (17)	ND (17)	ND (17)	ND (17)	ND (25)
2,4-DINITROTOLUENE	0.7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
2,6-DINITROTOLUENE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
DI-N-OCTYLPHTHALATE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
FLUORANTHENE	1000		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	6.4
FLUORENE	1000		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
HEXACHLOROBEZENE	0.7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
HEXACHLOROBUTADIENE	30		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
HEXACHLOROETHANE	0.7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
HEXACHLOROCYCLOPENTADIENE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
INDENO(1,2,3-CD)PYRENE	20		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
ISOPHORONE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
2-METHYL-4,6-DINITROPHENOL	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
2-METHYLNAPHTHALENE	0.7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)*
O-CRESOL (2-Methylphenol)	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
M/P-CRESOL (3/4-Methylphenol)	~		ND (6.5)	ND (6.5)	ND (6.5)	ND (6.5)	ND (6.5)	ND (4.8)
NAPHTHALENE	4		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
2-NITROANILINE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
3-NITROANILINE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
4-NITROANILINE	~		ND (6.4)	ND (6.4)	ND (6.4)	ND (6.4)	ND (6.4)	ND (9.7)
NITROBENZENE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
2-NITROPHENOL	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
4-NITROPHENOL	~		ND (17)	ND (17)	ND (17)	ND (17)	ND (17)	ND (25)
N-NITROSODI-N-PROPYLAMINE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
N-NITROSODIETHYLAMINE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
N-NITROSODIMETHYLAMINE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
N-NITROSODIPHENYLAMINE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	5.7
PENTACHLOROPHENOL	3		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
PHENANTHRENE	10		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	7.6
PHENOL	0.9		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
PYRENE	1000		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	33
PYRIDINE	~		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
1,2,4-TRICHLOROBEZENE	2		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
2,4,5-TRICHLOROPHENOL	4		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (4.8)
2,4,6-TRICHLOROPHENOL	0.7		ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)	ND (3.2)
NOTES:								
ND = Not detected above the lab reporting limits shown in parenthesis.								
NA = Not analyzed								
~ = No Method 1 Standard available								
Red text indicates that the reporting limit exceeds the regulatory standard.								
* The VOC result for 2-methylnaphthalene was detected at 11 µg/Kg (0.011 mg/Kg); which is below the Method 1 Standard.								



Town of Arlington, Massachusetts

Notice of Intent: 16-38 Drake Road (Drake Village) (DEP #091-0371).

Summary:

Notice of Intent: 16-38 Drake Road (Drake Village) (DEP #091-0371).

The Arlington Conservation Commission will hold a public hearing to consider a Notice of Intent under the Wetlands Protection Act and Arlington Bylaw for Wetlands Protection for sewer line replacement and repaving of the drive aisle and parking area at the Drake Village Complex at 16-38 Drake Road.

ATTACHMENTS:

Type	File Name	Description
Reference Material	16-38_Drake_Road_(Drake_Village)_Notice_of_Intent_Package.pdf	16-38 Drake Road (Drake Village) Notice of Intent Package.pdf

LETTER OF TRANSMITTAL

GCG ASSOCIATES, INC.
84 MAIN STREET
WILMINGTON, MA 01887
(978) 657-9714

JOB #: 24108

TO: Arlington Conservation Commission
730 Mass Ave. Annex
Arlington, MA 02476

DATE: June 4, 2025

ATTENTION: Morgan, David
RE: Hauser Building
Arlington Housing Authority
37 Drake Road
Notice of Intent Application

WE ARE SENDING YOU: ☒ Attached ☐ Under a Separate Cover via Parcel Post
☐ Shop Drawings ☐ Prints ☒ Plans ☐ Specifications
☐ Copy of This Letter ☐ Change Order ☐ Disk

COPY	DATE	REV.	DESCRIPTION
1	May 30, 2025		Check #0181, \$150.00 for legal notice fee
2	June 3, 2025		Notice of Intent Application Package (Booklet & Plan Set).
3	May 30, 2025		Parking Lot Improvement Project – Hauser Building (667-4) 37 Drake Road – Arlington Housing Authority EOHLC project #010130 (Plan Set)

THESE ARE TRANSMITTED as checked below:

☒ For Approval ☐ Approved as Submitted ☐ Resubmitted
☐ For Your Use ☐ Approved as Noted ☐ Copy for Distribution
☐ As Requested ☐ Returned for Corrections ☐ Returned Corrected
☒ For Review and Comment

REMARKS

Please see attached for the Notice of Intent application for Drake Village in Arlington. The Applicant / Property Owner is the Arlington Housing Authority, therefore filing fee is exempt. A \$150.00 check for legal Notice is attached. Please contact us if you have any questions.

FROM:

Anthony Ma, P.E.

*cc: MassDEP Northeast Regional Office
Arlington Housing Authority*

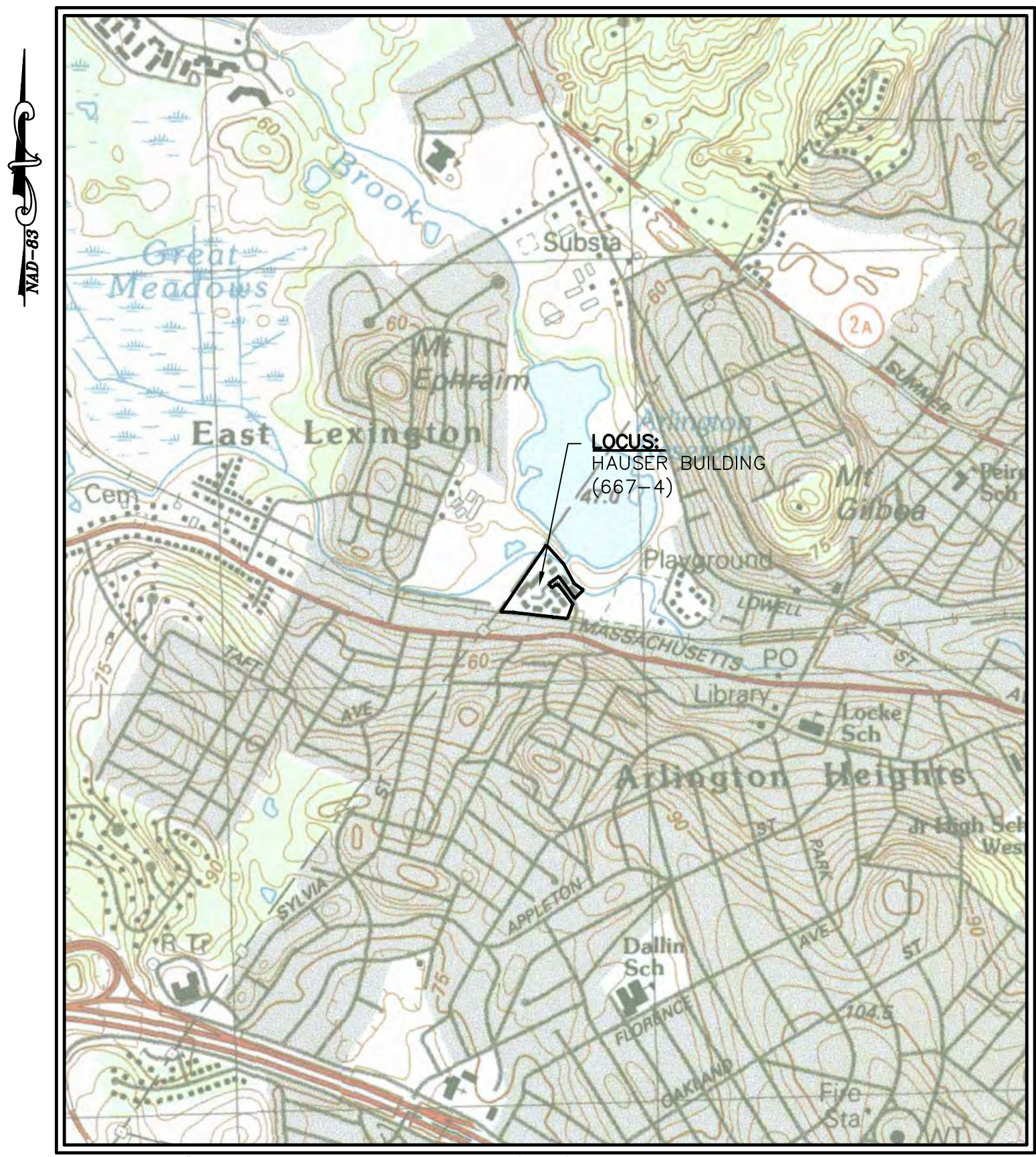
PARKING LOT IMPROVEMENT PROJECT
HAUSER BUILDING (667-4)
37 DRAKE ROAD
ARLINGTON HOUSING AUTHORITY
ARLINGTON, MASSACHUSETTS
EOHLC PROJECT #010130

OWNER/APPLICANT:

ARLINGTON HOUSING AUTHORITY
4 WINSLOW STREET
ARLINGTON MA, 02474
PHONE: (781) 646-3400

PROJECT ADDRESS:

HAUSER BUILDING
37 DRAKE ROAD
ARLINGTON, MA ZIP 02476



IMAGES OBTAINED FROM: "OFFICE OF GEOGRAPHIC AND ENVIRONMENTAL INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS"

LOCUS PLAN

SCALE : 1"=1000'±

INDEX TO DRAWINGS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	NOTES AND LEGEND
3	PROPOSED UTILITY IMPROVEMENTS
4	PROPOSED SITE IMPROVEMENTS
5	DETAILS I
6	DETAILS II



05/30/2025

NOTICE OF INTENT

GCG ASSOCIATES INC. CONSULTING ENGINEERS WILMINGTON, MASSACHUSETTS

MAY 30, 2025

GENERAL NOTES

- PLANS AND TOPOGRAPHIC INFORMATION ARE PREPARED FROM A GROUND SURVEY PERFORMED BY GCG ASSOCIATES, INC. ON SEPTEMBER 20, 2021.
- ALL LOCATIONS AND ELEVATIONS SHOWN REFER TO MASSACHUSETTS STATE PLANE COORDINATE SYSTEM NAD 83/ NAVD 88.
- EXISTING UTILITIES ARE SHOWN ON THE PLAN FOR INFORMATION PURPOSES ONLY AND THE SIZE, TYPE AND LOCATION OF UTILITIES MAY NOT BE SHOWN AT EXACT LOCATIONS. ALL LOCATIONS OF SUBSURFACE UTILITIES AND STRUCTURES WERE OBTAINED FROM AVAILABLE TOWN AND UTILITY RECORDS. THE CONTRACTOR SHALL PROPERLY LOCATE THE UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN UTILITY INFORMATION BY CONTACTING DIGSAFE (811). THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY UTILITY LINE LOCATIONS AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A PRIVATE MARKING COMPANY TO LOCATE EXISTING UNDERGROUND UTILITIES ON SITE THAT SHALL BE INCLUDED IN THE CONTRACT PRICE.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A CONSTRUCTION SCHEDULE DELINEATING THE SEQUENCE OF WORK AND ESTIMATED TIME OF COMPLETION OF EACH SEGMENT OF WORK PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL MAINTAIN CONTINUOUS TRAFFIC FLOW DURING CONSTRUCTION SATISFACTORY TO THE ENGINEER. NO EQUIPMENT SHALL BE ALLOWED TO BE PARKED ON THE ROAD WHEN NOT IN USE. MATERIALS SHALL NOT BE STOCKPILED ON THE ROAD UNLESS APPROVED BY THE ARLINGTON HOUSING AUTHORITY.
- ALL CONSTRUCTION SIGNAGE SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES AND PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ALL WORK INCLUDED UNDER THIS CONTRACT. THE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SAFETY BARRIERS AND WARNING FLASHERS, AS REQUIRED BY THE CONDUCT OF THE WORK FOR THE PROTECTION OF WORKERS AND NON-WORKERS ALIKE. THE CONTRACTOR'S ATTENTION IS DIRECTED TO OSHA REQUIREMENTS.
- DAMAGE TO ANY UTILITY WILL BE REPAIRED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, IN A TIMELY MANNER SO THAT DISRUPTION OF SERVICE TO ANY UTILITY WILL NOT BE LONGER THAN PRACTICALLY NECESSARY TO REPAIR THE DAMAGE.
- THE CONTRACTOR SHALL OBTAIN SEWER, WATER, DRAIN, TRENCH, ELECTRICAL, AND ANY OTHER PERMITS FROM THE TOWN. THE ARLINGTON HOUSING AUTHORITY (WHA) WILL REIMBURSE THE CONTRACTOR FOR THE COST OF THE PERMITS.
- WATER MAINS ARE ASSUMED TO BE 5 FEET BELOW THE EXISTING GROUND SURFACE. GAS LINES ARE ASSUMED TO BE 3 FEET BELOW THE EXISTING GROUND SURFACE. TELEPHONE LINES AND TRAFFIC SIGNAL CONTROLS ARE ASSUMED TO BE 2 FEET BELOW THE EXISTING GROUND SURFACE.
- ALL EXISTING CATCH BASINS, DRAIN MANHOLES, ETC. SHALL REMAIN PROTECTED AND IN PLACE DURING CONSTRUCTION, UNLESS NOTED DIFFERENTLY ON THE PLAN. THE CONTRACTOR SHALL NOT DAMAGE EXISTING STRUCTURES OR COVERS/HATCH DURING THE CONSTRUCTION OPERATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY DEBRIS, SEDIMENT OR SILTY WATER FROM ENTERING ANY DRAINAGE SYSTEM, ETC. DURING ALL PHASES OF CONSTRUCTION.
- DURING CONSTRUCTION THE CONTRACTOR SHALL PROTECT ALL TREES AND ROOTS OF TREES TO REMAIN.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENCES FOR DURATION OF PROJECT.
- SIDEWALKS, WALKWAYS AND DRIVEWAYS THAT ARE DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL ONCE WORK IS COMPLETED.
- ANY POLICE DETAILS REQUIRED SHALL BE INCLUDED IN THE LUMP SUM PRICE AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT. ALL DISTURBED AREAS ARE TO BE RESTORED WITH LOAM (6" MINIMUM) AND SEED, AND INCLUDED IN THE CONTRACT PRICE.

CATCH BASIN CLEANING NOTES

- ALL ACCUMULATED SEDIMENT, DEBRIS, ORGANIC MATTER, ETC. SHOULD BE REMOVED FROM CATCH BASINS AND DRAINAGE SYSTEMS AS NOTED ON THE PLANS.
- ALL SEDIMENT AND DEBRIS REMOVED FROM THE CATCH BASIN OR PIPE LINE SHALL BE PROPERLY HANDLED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.
- ANY REQUIRED MAINTENANCE OR REPAIRS NOTED DURING THE CLEANING AND INSPECTION SHOULD BE ADDRESSED IMMEDIATELY. DRAINAGE INLET FRAMES AND GRATES SHALL BE REPLACED IN KIND AS NOTED ON THE PLANS.
- ALL CATCH BASINS SHALL BE CLEANED UPON COMPLETION OF WORK.

FINE GRADING AND COMPACTING

- THE CONTRACTOR SHALL FINE GRADE AND COMPACT ALL AREAS IN PREPARATION FOR PAVEMENT, INCLUDING, BUT NOT LIMITED TO THE DRIVEWAY AREAS AND TRANSITION DRIVEWAY AREAS. THE CONTRACTOR SHALL ALSO STRAIGHT CUT ALL EXISTING JOINTS AND EDGES IN PREPARATION FOR FINAL PAVEMENT.
- PAYMENT FOR FINE GRADING AND COMPACTING THE RECONSTRUCTED BITUMINOUS DRIVEWAY AND PARKING AREAS SHALL BE INCLUDED IN THE CONTRACT PRICE.

PARKING AREA NOTES

- THE CONTRACTOR SHALL REMOVE THE ENTIRE WIDTH OF EXISTING PAVEMENT AND LANDSCAPED AREA AS SHOWN. THE LIMITS ARE SHOWN IN THE PLAN VIEW OF THESE CONSTRUCTION DRAWINGS.
- AFTER REMOVING THE PARKING AREA ASPHALT PAVEMENT AND UNDERLYING MATERIALS, THE CONTRACTOR SHALL THEN EXCAVATE AND REMOVE THE NECESSARY SUBGRADE MATERIAL IN ORDER TO MEET THE FINAL GRADES OF THE PARKING AREA. THE CONTRACTOR SHALL THEN PLACE, GRADE AND COMPACT THE NEW GRAVEL BASE COURSE TO A 12" DEPTH AS SHOWN ON THE TYPICAL DRIVEWAY AND PARKING AREA DETAIL. THE SUBBASE SHALL THEN BE FINE GRADED AND COMPACTED TO ALLOW FOR THE PLACEMENT OF A 2" BINDER COURSE AND 1 1/2" SURFACE COURSE.
- THE CONTRACTOR SHALL GRADE THE PROCESSED GRAVEL BORROW MATERIAL TO ALLOW THE FINAL PAVEMENT SURFACE TO MATCH THE EXISTING EDGE OF PAVEMENT GRADES UNLESS OTHERWISE NOTED. ANY GRADING MODIFICATIONS SHALL DIRECT DRAINAGE TOWARDS THE APPROPRIATE AREAS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION TESTING. TESTING SHALL BE PERFORMED AT INTERVALS OF 100 FEET ALONG PARKING AREAS.
- PRIOR TO COMPLETING FINAL GRADING OF THE GRAVEL THE ENGINEER SHALL REVIEW GRADES TO DETERMINE THAT SUFFICIENT CROSS SLOPES AND POSITIVE DRAINAGE FLOWS HAVE BEEN MAINTAINED. IF GRADES NEED TO BE ADJUSTED, THE CONTRACTOR SHALL REGRADE AS DIRECTED.
- CROSS SLOPES AT CATCH BASIN SHALL BE ADJUSTED AS NECESSARY TO ASSURE PROPER DRAINAGE.
- CONTRACTOR SHALL CONTROL DUST DURING CONSTRUCTION USING CALCIUM CHLORIDE.
- DRAIN STRUCTURES SHALL BE ADJUSTED OR REMODELED AS REQUIRED TO MEET GRADE.
- ALL PROPOSED CUTS AND FILLS REQUIRED TO GRADE THE SUBSURFACE MATERIAL OR GRAVEL BORROW TO A 12" DEPTH SHALL BE INCLUDED FOR PAYMENT UNDER THE CONTRACT PRICE.
- THE CONTRACTOR SHALL FINE GRADE THE EXISTING GRAVEL BASE COURSE MATERIAL NO MORE THAN 24 HOURS PRIOR TO THE PLACEMENT OF THE 2" BASE COURSE PAVEMENT. ALL GRADING, COMPACTION AND DUST CONTROL ASSOCIATED WITH THE GRAVEL BASE COURSE SHALL BE INCLUDED IN THE CONTRACT PRICE.
- THE COSTS ASSOCIATED WITH THE EXCAVATION, PLACEMENT AND DISPOSAL OF SURPLUS SUBBASE MATERIAL SHALL BE INCLUDED IN THE CONTRACT PRICE.

GENERAL PAVING NOTES

- THE CONTRACTOR SHALL SAW CUT ALL JOINTS IN THE EXISTING PAVEMENT AREAS WHERE THE PROPOSED PAVEMENT WILL MEET EXISTING PAVEMENT TO REMAIN. ALL JOINTS SHALL PROVIDE A SMOOTH TRANSITION BETWEEN NEW AND OLD PAVEMENTS. IMMEDIATELY AFTER BITUMINOUS CONCRETE PAVING, ALL NEW JOINTS SHALL BE SANDED AND SEALED. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE.
- THE CONTRACTOR SHALL RESET ALL WATER, SEWER, GAS, ELECTRIC, TELEPHONE AND DRAINAGE FRAMES AND GRATES AND ANY OTHER STRUCTURES, SIGNS, ETC. NECESSARY TO INSTALL THE PROPOSED PAVEMENT TO THE PROPOSED FINISH GRADE ELEVATION. THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE.
- ALL WORK REQUIRED TO LOWER, RAISE, AND EXTEND THE EXISTING CASTINGS AND VALVE BOXES TO THE PROPOSED FINISH GRADE SHALL BE INCLUDED IN THE CONTRACT PRICE.
- THE CONTRACTOR SHALL BE PAID FOR WORK REQUIRED TO SUPPORT OR REMOVE AND REPLACE EXISTING STRUCTURES AND UTILITY LINES ADJACENT TO OR WITHIN THE LIMITS OF WORK UNDER THE CONTRACT PRICE.
- ALL CASTINGS, GATE BOXES, ETC. DAMAGED DURING RECONSTRUCTION SHALL BE SUPPLIED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. THE CONTRACTOR SHALL INCLUDE THE COST IN THE CONTRACT PRICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY RELOCATION OF TRASH BARRELS AS NECESSARY TO COMPLETE THE PROPOSED WORK.
- THE CONTRACTOR SHALL MAINTAIN CONTINUOUS TRAFFIC FLOW DURING CONSTRUCTION AND SHALL MAINTAIN ACCESS TO ALL RESIDENTIAL DRIVEWAYS AND ACCESS WAYS SATISFACTORY TO THE ENGINEER, THE TOWN OF ARLINGTON, AND THE ARLINGTON HOUSING AUTHORITY. NO EQUIPMENT SHALL BE ALLOWED TO BE PARKED ON THE DRIVEWAY WHEN NOT IN USE. MATERIALS SHALL NOT BE STOCKPILED ON THE DRIVEWAY.
- ALL NEW PAVEMENT PARKING STRIPING SHALL BE 4" WIDE PAINTED LINES TO MATCH EXISTING COLOR ON SITE.
- THE CONTRACTOR SHALL APPLY CALCIUM CHLORIDE FOR DUST CONTROL.

TREE REMOVAL AND TRIMMING NOTES

- THE CONTRACTOR SHALL REMOVE TREES AND STUMPS AS IDENTIFIED ON PLANS AND SHALL NOT REMOVE ANY TREES UNTIL APPROVED BY THE ENGINEER.
- ROOTS ON TREES WHICH ARE IMPACTING THE SAFETY OF THE SITE OR AFFECTING WALKWAYS SHALL BE REMOVED BY THE CONTRACTOR. WHEN THE ARBORIST DETERMINES THAT THE NUMBER OF ROOTS REMOVED MAY IMPACT THE LIFE OF THE TREE, THE TREE AND STUMP SHALL BE REMOVED.
- THE CONTRACTOR SHALL REMOVE OVERGROWN VEGETATION ALONG WALKWAYS AND FENCES AS NEEDED. SEE SPECIFICATION SECTION 31.11.00. THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE.
- CLEARING AND GRUBBING WITHIN AREAS IDENTIFIED SHALL INCLUDE TRIMMING OF TREES SO THAT LIMBS SHALL NOT EXTEND OVER ANY BUILDING ROOF AND WITHIN 10 FEET OF ANY UTILITY WIRE. TREE LIMBS SHALL ALSO BE TRIMMED WHEN EXTENDING BELOW A HEIGHT OF 10 FEET FROM GROUND LEVEL.
- ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED.

ABBREVIATIONS

APPROX	APPROXIMATE
BB	BITUMINOUS BERM CURB
BC	BOTTOM OF CURB
BLDG	BUILDING
BIT	BITUMINOUS CONCRETE
CB	CATCH BASIN
CC	CONCRETE CURB
CCB	CAPE COD BERM
CIP	CAST-IN-PLACE
CLF	CHAIN LINK FENCE
CONC	CONCRETE
D	DRAIN
DI	DUCTILE IRON
DRV	DRIVEWAY
DMH	DRAIN MANHOLE
E	ELECTRIC
EMH	ELECTRIC MANHOLE
EOC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
EX	EXISTING
HCR	HANDICAPPED RAMP
HYD	HYDRANT
INV	INVERT
LF	LINEAR FEET
LP	LIGHT POLE
MH	MANHOLE
N/F	NOW OR FORMERLY
NO	NUMBER
PROP	PROPOSED
R	RIM
SMH	SEWER MANHOLE
SPEC	SPECIFICATION
SW	SIDEWALK
TC	TOP OF CURB
TH	THRESHOLD
TYP	TYPICAL
UP	UTILITY POLE
VGC	VERTICAL GRANITE CURB

EXISTING LEGEND

△	EXIST. MAG NAIL BENCHMARK
□	.....	EXIST. CATCH BASIN
○	.....	EXIST. ROUND CATCH BASIN
⊙	.....	EXIST. DRAIN MANHOLE
⊗	.....	EXIST. SEWER MANHOLE
⊕	.....	EXIST. MANHOLE
⊖	.....	EXIST. ELECTRIC MANHOLE
⊗	.....	EXIST. PULL BOX
⊕	.....	EXIST. HYDRANT
⊖	.....	EXIST. WATER GATE VALVE
⊗	.....	EXIST. GAS GATE VALVE
⊕	.....	EXIST. BOLLARD
⊖	.....	EXIST. LIGHT POST
⊗	.....	EXIST. SIGN
⊕	.....	EXIST. FLAG POLE
⊖	.....	EXIST. SITE BENCH
⊗	.....	EXIST. BLDG. (APPROX.)
D	.....	EXIST. DRAIN LINE
S	.....	EXIST. SEWER LINE
W	.....	EXIST. WATER LINE
E	.....	EXIST. ELECTRIC LINE
G	.....	EXIST. GAS LINE
T	.....	EXIST. TELEPHONE LINE
P	.....	EXIST. PLUMBING
C	.....	EXIST. CURB
V	.....	EXIST. CHAIN LINK FENCE
V	.....	EXIST. VINYL FENCE
W	.....	EXIST. WALL
140	.....	EXIST. 5' CONTOURS
138	.....	EXIST. 1' CONTOURS
41.29	.....	EXIST. SPOT GRADE
36"	.....	EXIST. TREE W/ DIAMETER
.....	.....	EXIST. TREE/VEGETATION LINE
.....	.....	APPROX. ABUTTER LOT LINE

NOTICE OF INTENT
EOHLC #010130

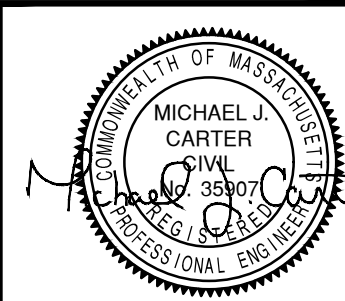
NOTES AND LEGEND

PARKING LOT IMPROVEMENT PROJECT
HAUSER BUILDING (667-4)
ARLINGTON HOUSING AUTHORITY

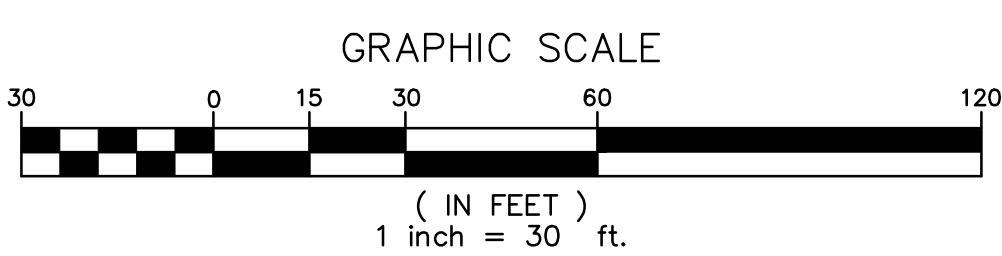
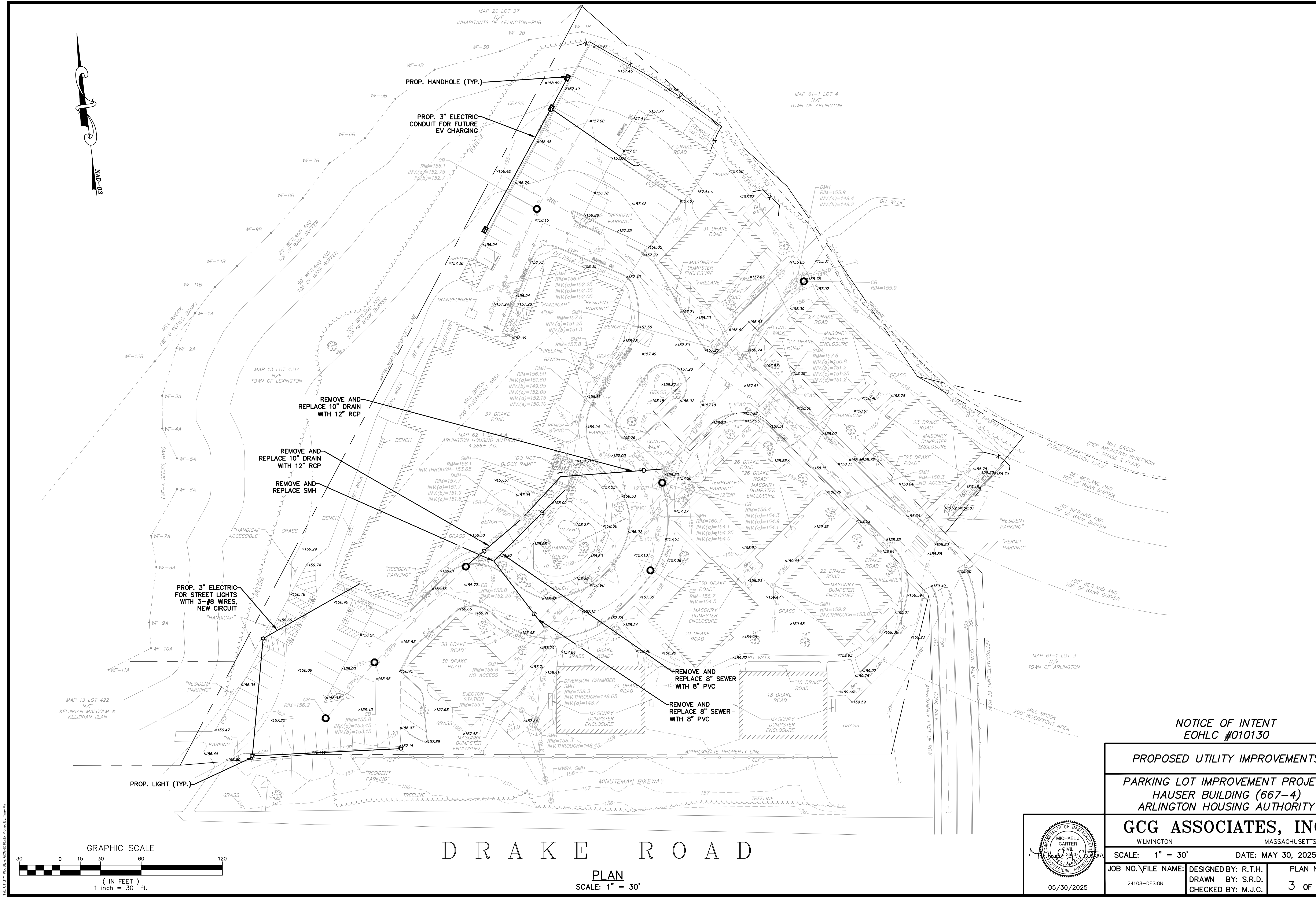
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1" = 30' DATE: MAY 30, 2025

JOB NO. \FILE NAME:	DESIGNED BY: R.T.H.	PLAN NO.
24108-DESIGN	DRAWN BY: S.R.D.	2 OF 6
	CHECKED BY: M.J.C.	



05/30/2025



DRAKE ROAD

PLAN
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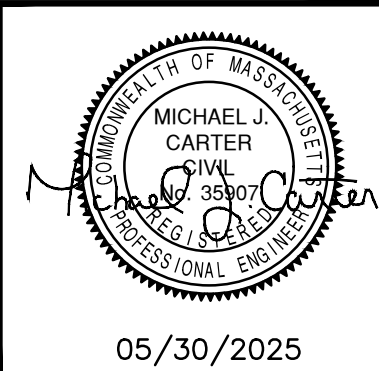
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PROPOSED UTILITY IMPROVEMENTS
PARKING LOT IMPROVEMENT PROJECT
HAUSER BUILDING (667-4)
ARLINGTON HOUSING AUTHORITY

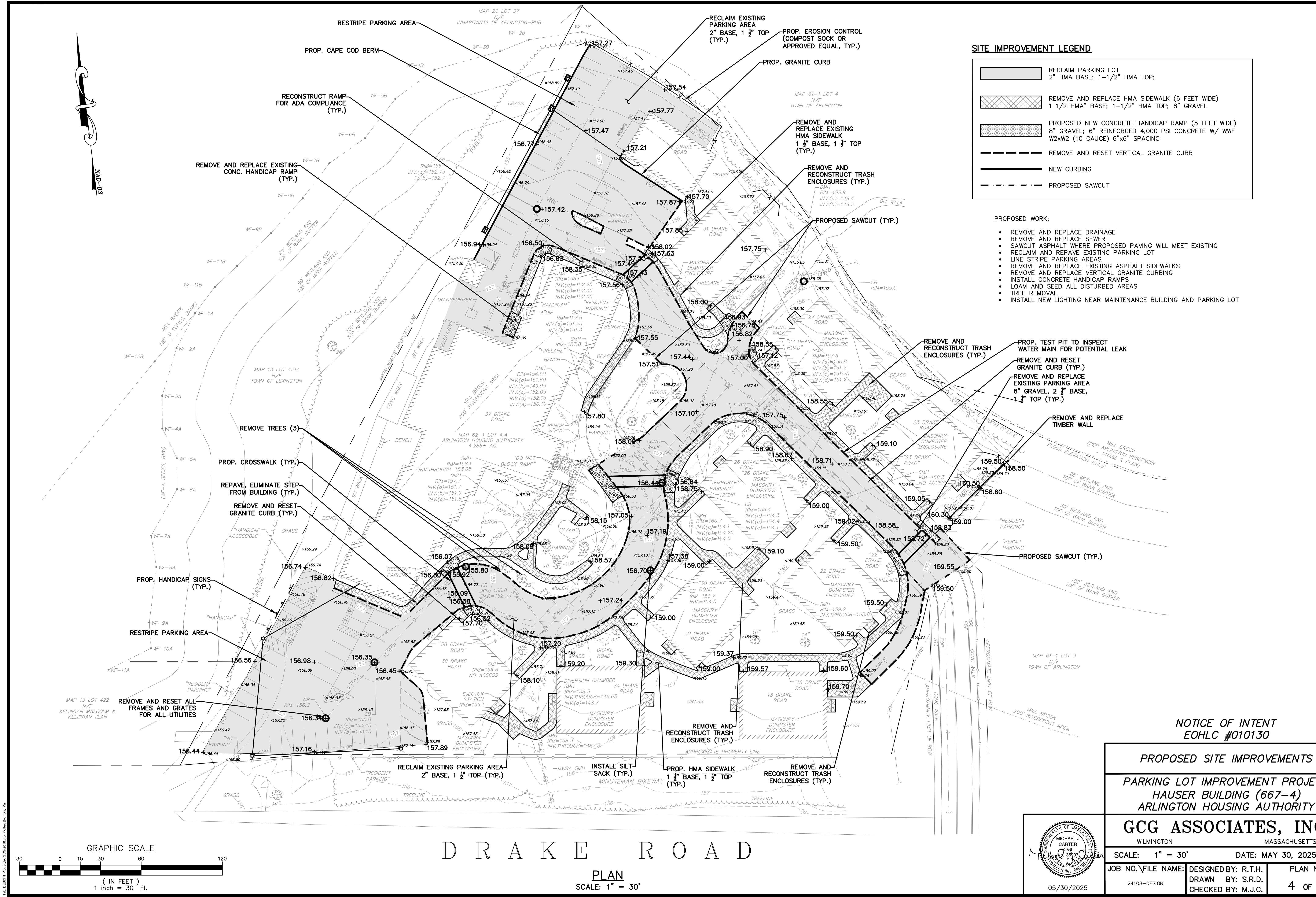
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WILMINGTON MASSACHUSETTS

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JOB NO. \FILE NAME: 24108-DESIGN DESIGNED BY: R.T.H. PLAN NO. 3 OF 6
DRAWN BY: S.R.D.
CHECKED BY: M.J.C.



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SITE IMPROVEMENT LEGEND

[Pattern]	RECLAIM PARKING LOT 2" HMA BASE; 1-1/2" HMA TOP;
[Pattern]	REMOVE AND REPLACE HMA SIDEWALK (6 FEET WIDE) 1 1/2 HMA" BASE; 1-1/2" HMA TOP; 8" GRAVEL
[Pattern]	PROPOSED NEW CONCRETE HANDICAP RAMP (5 FEET WIDE) 8" GRAVEL; 6" REINFORCED 4,000 PSI CONCRETE W/ WWF W2xW2 (10 GAUGE) 6"x6" SPACING
[Line]	REMOVE AND RESET VERTICAL GRANITE CURB
[Line]	NEW CURBING
[Line]	PROPOSED SAWCUT

- PROPOSED WORK:
- REMOVE AND REPLACE DRAINAGE
 - REMOVE AND REPLACE SEWER
 - SAWCUT ASPHALT WHERE PROPOSED PAVING WILL MEET EXISTING
 - RECLAIM AND REPAVE EXISTING PARKING LOT
 - LINE STRIPE PARKING AREAS
 - REMOVE AND REPLACE EXISTING ASPHALT SIDEWALKS
 - REMOVE AND REPLACE VERTICAL GRANITE CURBING
 - INSTALL CONCRETE HANDICAP RAMPS
 - LOAM AND SEED ALL DISTURBED AREAS
 - TREE REMOVAL
 - INSTALL NEW LIGHTING NEAR MAINTENANCE BUILDING AND PARKING LOT

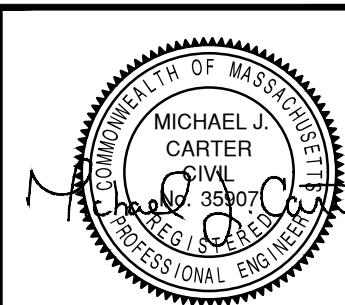
NOTICE OF INTENT
EOHLC #010130

PROPOSED SITE IMPROVEMENTS
PARKING LOT IMPROVEMENT PROJECT
HAUSER BUILDING (667-4)
ARLINGTON HOUSING AUTHORITY

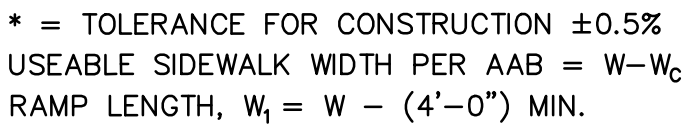
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

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	CHECKED BY: M.J.C.	



05/30/2025



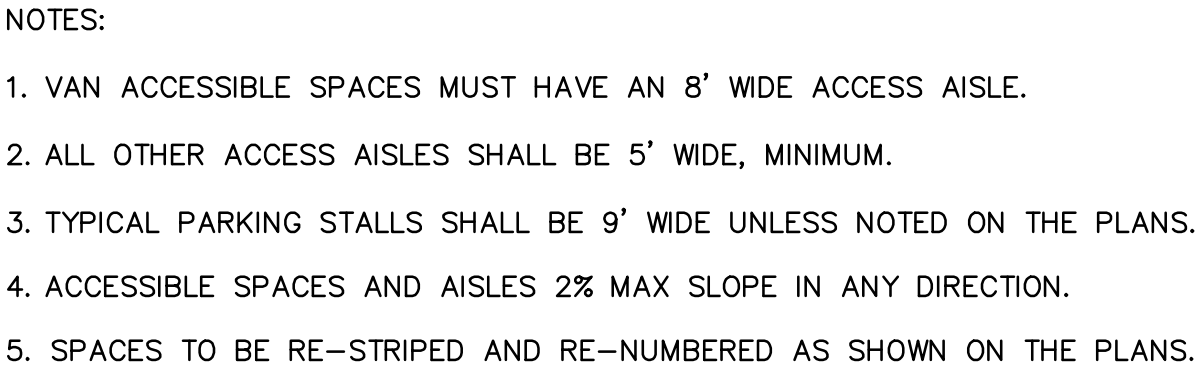
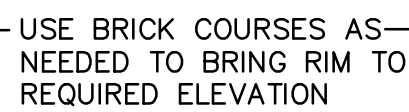
* BASED ON DESIGN SLOPE OF 7.5% AND CURB REVEAL OF 6".

NOTES:

1. THE DIMENSIONS SHOWN AT ROADWAY EDGE ARE FIXED DISTANCES.
2. RAMP CROSS SECTION TO BE SAME AS ADJACENT SIDEWALK; e.g.
DEPTH OF SURFACE OF SIDEWALK
3. PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY
BROOMING IN A DIRECTION PARALLEL TO THE LENGTH OF THE RAMP.
4. IN NO CASE ARE THE RAMPS TO BE PLACED BEHIND THE STOP LINE.
5. SIDEWALKS THAT CROSS DRIVEWAYS SHALL BE RAMPED TO MEET THE
GRADE OF THE DRIVEWAY.

* THE DIMENSIONS ARE SUBJECT TO CHANGE IN THE FIELD IF
EXISTING APPURTENANCES OR CONDITIONS WILL MAKE THE RAMP
LOCATIONS IMPRACTICAL OR UNSAFE.

N.T.S.



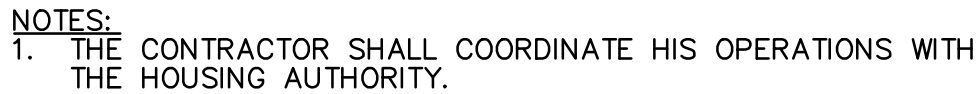
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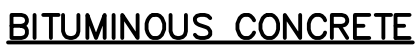
NOTES:
ALL WALKWAYS SHALL HAVE A 3' RADIUS AT INTERSECTIONS.

N.T.S.

N.T.S.



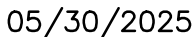
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NOTES:

1. GRAVEL IN AREAS OF EXISTING SIDEWALKS WHICH ARE BEING REMOVED OR REPLACED IN THE SAME LOCATION SHALL BE REGRADED AND SUPPLEMENTAL GRAVEL ADDED. ADDITIONAL GRAVEL REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE.
2. EXCAVATION AND PLACEMENT OF GRAVEL REQUIRED FOR NEW SIDEWALKS, WIDENING SIDEWALKS AND PAVED AREA SHALL BE INCLUDED IN THE CONTRACT PRICE. DISPOSAL OF THE EXCAVATED MATERIAL SHALL ALSO BE INCLUDED IN THE CONTRACT PRICE.
3. REMOVAL OF STUMPS AND CUTTING AND DISPOSAL OF ROOTS SHALL BE INCLUDED IN THE CONTRACT COST TO CONSTRUCT WALKWAYS.

N.T.S.



DETAILS I

GCG ASSOCIATES, INC.

SCALE: 1" = 30' DATE: MAY 30, 2025

24108-DESIGN

DRAWN BY: S.R.D.
CHECKED BY: M.J.C.

PLAN NO.
5 OF 6

EROSION AND SEDIMENT CONTROL MAINTENANCE

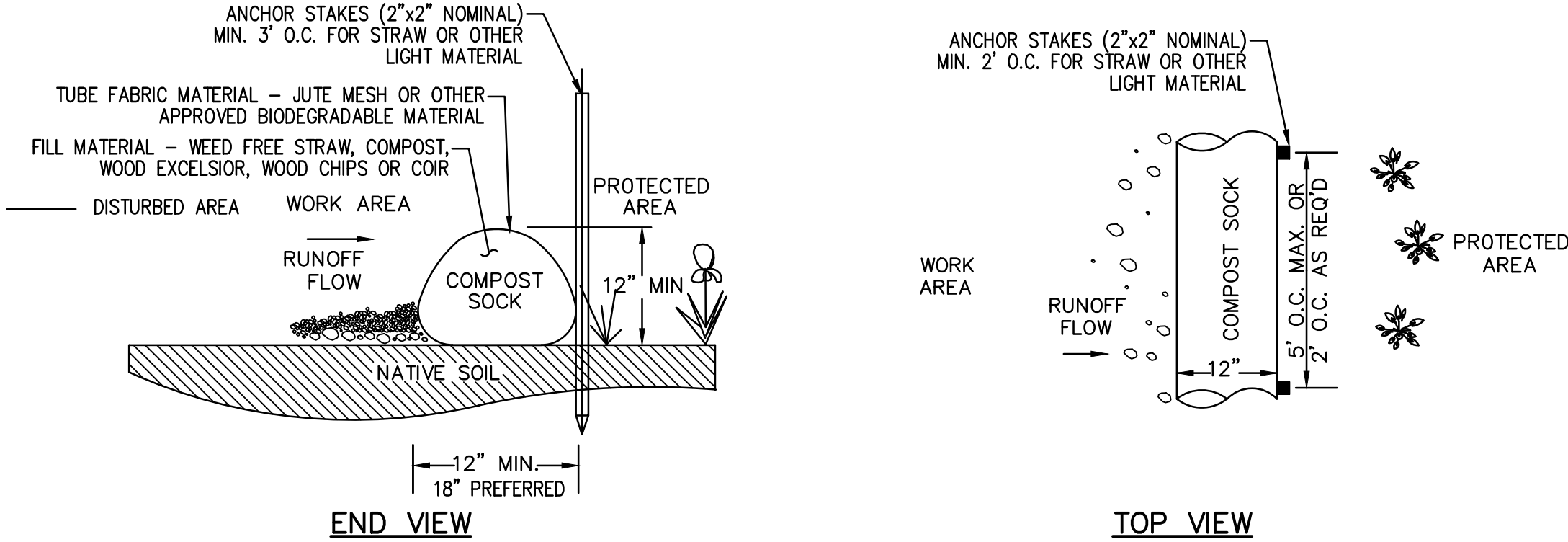
DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED FOR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING AS TO PREVENT EROSION.

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF REQUEST.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FORM ALL DRAINAGE STRUCTURES, AND PIPES AT THE COMPLETION ON CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

TRENCHES WITHIN PAVED ROADWAY TO BE CLOSED WITH 3" TEMPORARY PAVEMENT AT THE END OF EACH WORK DAY.

CONTRACTOR TO PERFORM STREET SWEEPING AT THE END OF EACH WORK DAY.



NOTES:

1. TUBES MAY BE FILLED ON SITE OR SHIPPED.
2. ENSURE PROPER LOCATION AT SITE FOR EFFECTIVENESS.
3. TUBES SHALL BE PLACED AND STAKED IN PLACE AS REQUIRED TO ENSURE STABILITY AGAINST WATER FLOWS.
4. TUBES FILLED WITH LIGHT MATERIAL SHALL BE STAKED AT A MAXIMUM OF 3 FEET ON CENTER. FOR HEAVIER MATERIAL, 5 FEET ON CENTER.
5. TUBES SHALL BE TAMPED TO ENSURE GOOD CONTACT WITH SOIL.
6. INSPECT AFTER EACH RAINFALL OR DAILY DURING RAINFALL EVENTS. CORRECT ALL DEFICIENCIES IMMEDIATELY.
7. FAILURE INCLUDES BUT IS NOT LIMITED TO WASHOUT, OVERTOPPING, CLOGGING, AND EROSION. IF OVERTOPPING OR WASHOUT OCCURS, NEW FILTER TUBES WITH ADDITIONAL STAKING OR MULCH MATERIAL SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
8. FILTER TUBES SHALL BE REMOVED ONCE SITE WORK IS COMPLETE, SITE IS STABLE, ADEQUATE GROWTH HAS BEEN ESTABLISHED AND AS DIRECTED BY THE ENGINEER. TUBE FABRIC SHALL BE CUT, REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR AT NO ADDITIONAL COST. AS DIRECTED BY ENGINEER, REMAINING MULCH MATERIAL MAY BE RAKED OUT SO NO MATERIAL IS GREATER THAN 2" IN DEPTH.
9. REFER TO EROSION CONTROL NOTES FOR ADDITIONAL INSTRUCTION.

COMPOST SOCK DETAIL

NOT TO SCALE

GENERAL

THIS PLAN PROPOSES EROSION CONTROL MEASURES TO ADEQUATELY CONTROL ACCELERATED SEDIMENTATION AND REDUCE THE DANGER FROM STORM WATER RUNOFF AT THE SITE. THE RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION, AND SAFE DISPOSAL OF PRECIPITATION. RUNOFF SHALL ALSO BE CONTROLLED BY STAGING CONSTRUCTION ACTIVITY AND PRESERVING NATURAL VEGETATION WHEREVER POSSIBLE.

EXISTING VEGETATION SHALL BE PROTECTED AND ONLY THAT CLEARING AND GRUBBING ABSOLUTELY NECESSARY TO THE PROPOSED CONSTRUCTION SHALL BE PERFORMED. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR, UNLESS OTHERWISE INDICATED ON THE PLANS; THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING GUIDELINES.

SEDIMENTATION CONTROL

ALL AREAS SHALL BE PROTECTED FORM SEDIMENTATION DURING AND AFTER CONSTRUCTION, PARTICULARLY THE STORAGE OF EXCAVATED OR STOCKPILED MATERIAL. THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM, OR ORGANIC MATTER PRIOR TO THE TRENCHING OR OTHER OPERATIONS AND SHALL STORE THEM SEPARATELY FROM ALL OTHER MATERIALS DURING EXCAVATION. EACH STOCKPILE MUST BE ADEQUATELY RINGED WITH SEDIMENT CONTROL MATERIAL (i.e., COMPOST SOCK AND/OR FILTER FABRIC FENCE).

DEBRIS AND OTHER WASTE RESULTING FROM EQUIPMENT MAINTENANCE AND CONSTRUCTION WILL NOT BE DISCARDED ON SITE.

EROSION & SEDIMENTATION CONTROL PLAN

SEDIMENTATION CONTROL SYSTEM – THE SEDIMENTATION CONTROL SYSTEM SHALL CONSIST OF COMPOST SOCK. THE SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED IMMEDIATELY AFTER A CUT SLOPE HAS BEEN GRADED, BEFORE A FILL SLOPE HAS BEEN CREATED, AND AS INDICATED ON THE PLANS. DESIGN THE SYSTEM TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE WETLANDS OR WATERCOURSES. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE TUBE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON; THE SEDIMENTATION CONTROL SYSTEM IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION; THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE FENCE ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

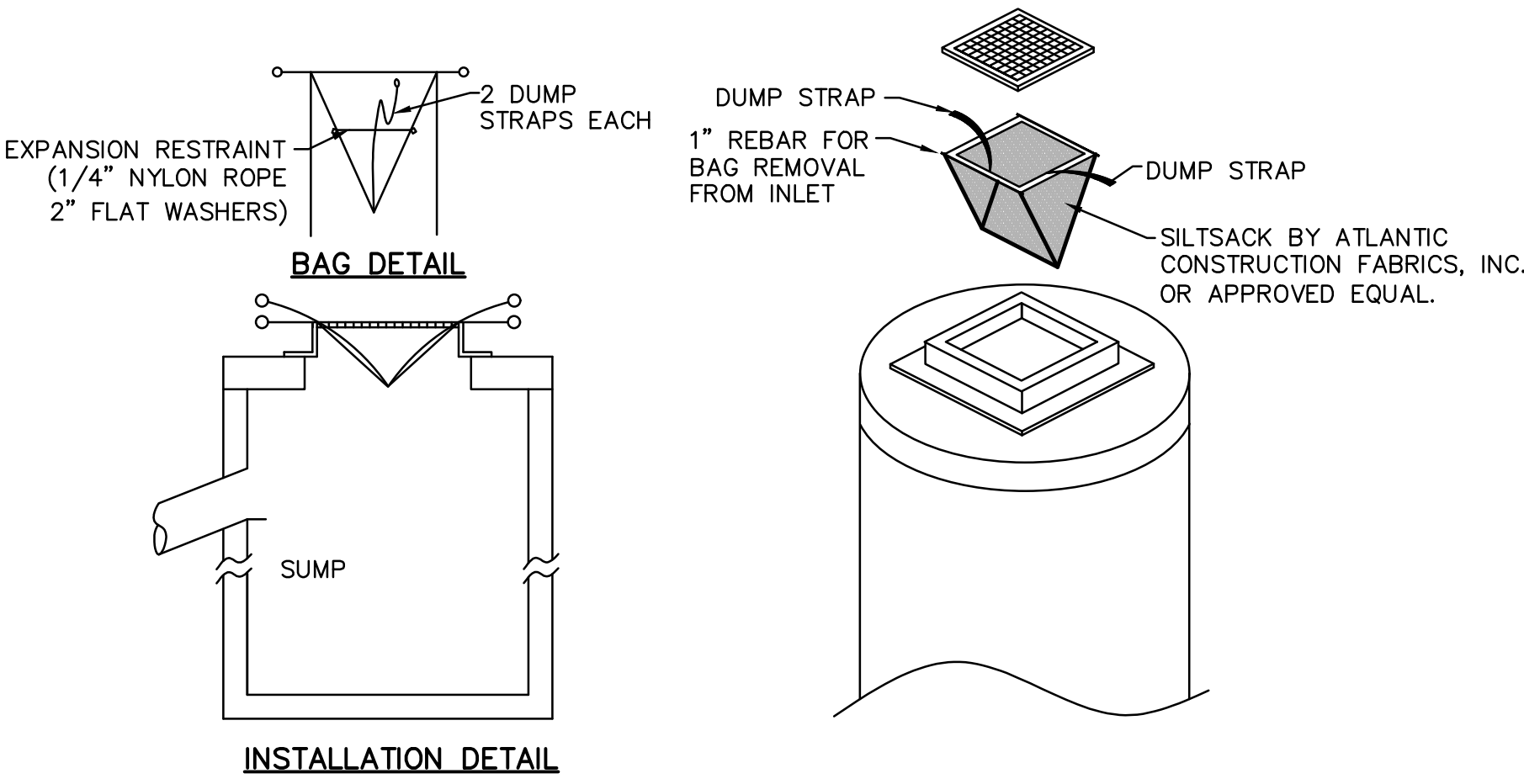
IN ALL AREAS, REMOVAL OF TREES, BUSHES, AND OTHER VEGETATION, AND DISTURBANCE TO THE SOIL, IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.

EROSION & SEDIMENT CONTROL MAINTENANCE

DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED FOR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING TO PREVENT EROSION.

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF REQUEST.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES AND PIPES. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIP RAP, AND CLEAN SEDIMENT COVERED STONES.



1. SILT SACKS SHALL BE INSTALLED IN ALL CATCH BASINS DURING CONSTRUCTION PERIOD.
2. INSPECTION SHALL BE WEEKLY AND REPAIR/REPLACEMENT MADE PROMPTLY AS NEEDED.
3. SILT SACKS SHALL BE KEPT CLEAN AND FREE OF DEBRIS.

SILTSACK DETAIL

N.T.S.

NOTICE OF INTENT
EOHLC #010130

DETAILS II

PARKING LOT IMPROVEMENT PROJECT
HAUSER BUILDING (667-4)
ARLINGTON HOUSING AUTHORITY

GCG ASSOCIATES, INC.

WILMINGTON

MASSACHUSETTS

SCALE: 1" = 30'

DATE: MAY 30, 2025

JOB NO. \FILE NAME:

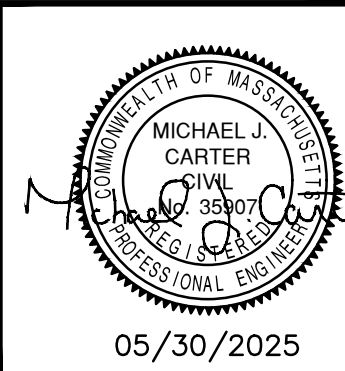
DESIGNED BY: R.T.H.

PLAN NO.

DRAWN BY: S.R.D.

CHECKED BY: M.J.C.

6 OF 6



**NOTICE OF INTENT
STORMWATER MANAGEMENT REPORT**

for

**Hauser Building (667-4), Drake Village Complex
Arlington Housing Authority
Parking Lot Improvement Project**

in

Arlington, MASSACHUSETTS

May 30, 2025

Prepared by
GCG ASSOCIATES, INC.
84 Main Street, Wilmington, MA 01887

TABLE OF CONTENTS

- WPA Form 3 – NOTICE OF INTENT
- NOI Wetland Fee Transmittal Form
- NOI Local Bylaw Filing Fee Exempted Letter, (Town Project, NOI Guidance - Rule #3.)
- Legal Notice Fee - \$150 Check.

I. PROJECT NARRATIVE

- Project Summary
- Jurisdiction
- Proposed Work
- Massachusetts Stormwater Management Standards
- Checklist for Stormwater Report

II. APPENDICES

- Appendix A: Project Maps
 - Walpole Town Hall, 135 School Street, Walpole, MA.
 - USGS Site Locus Map
 - FEMA Flood Map Number
 - 25017C0412E & 25017C0416E, effective date June 04, 2010
 - GIS Wetland and NHESP Map
- Appendix B: Soil Map & Hydrologic Soil Group (HSG) Classification
 - Web Soil Survey, USDA, Natural Resources Conservation Service
- Appendix C: Stormwater Standards
 - Checklist for Stormwater Report
 - Standard 8: Construction Period Pollution Prevention Plan
 - Standard 9: Long Term Operation & Maintenance Plan
 - Standard 10: Illicit Discharge Statement
- Appendix D: Project Abutter Information
 - Notification to Abutters
 - Certified List of Abutters – 100' (Arlington & Lexington)
 - Affidavit of Service
- Appendix E: Wetland Delineation Report
 - Wetland Report – Arlington Housing Authority – Drake Village at 16 Drake Road, Arlington, MA., report by Norse Environmental Service, Inc. March 15, 2022.

III REFERENCES

- Parking Lot Improvement Project, Hauser Building (667-4), 37 Drake Road, Arlington Housing Authority, Town of Arlington, MA., (6 sheets).
Dated: 05-30-2025, By: GCG Associates, Inc.



Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username: **GCGTONYMA**

Transaction ID: **1899585**

Document: **WPA Form 3 - NOI**

Size of File: **274.66K**

Status of Transaction: **In Process**

Date and Time Created: **6/4/2025:9:02:15 AM**

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Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1899585
City/Town:ARLINGTON

A.General Information

1. Project Location:

a. Street Address	16-38 DRAKE ROAD	c. Zip Code	02476
b. City/Town	ARLINGTON	e. Longitude	71.19062W
d. Latitude	42.42654N	g.Parcel/Lot #	1-4.A
f. Map/Plat #	62		

2. Applicant:

☐ Individual ☒ Organization

a. First Name	JACK	b.Last Name	NAGLE
c. Organization	ARLINGTON HOUSING AUTHORITY		
d. Mailing Address	740 MASSACHUSETTS AVENUE		
e. City/Town	ARLINGTON	f. State	MA
g. Zip Code	02476		
h. Phone Number	781-646-3400	i. Fax	
j. Email	jnagle@arlingtonhousing.org		

3.Property Owner:

☐ more than one owner

a. First Name	JACK	b. Last Name	NAGLE
c. Organization	ARLINGTON HOUSING AUTHORITY		
d. Mailing Address	740 MASSACHUSETTS AVENUE		
e. City/Town	ARLINGTON	f.State	MA
g. Zip Code	02476		
h. Phone Number	781-646-3400	i. Fax	
j.Email	jnagle@arlingtonhousing.org		

4.Representative:

a. First Name	MICHAEL	b. Last Name	CARTER
c. Organization	GCG ASSOCIATES, INC.		
d. Mailing Address	84 MAIN STREET		
e. City/Town	WILMINGTON	f. State	MA
g. Zip Code	01887		
h.Phone Number	978-657-9714	i.Fax	
j.Email	mike.carter@gcgassociates.net		

5.Total WPA Fee Paid (Automatically inserted from NOI Wetland Fee Transmittal Form):

a.Total Fee Paid	0.00	b.State Fee Paid	0.00	c.City/Town Fee Paid	0.00
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6.General Project Description:

HAUSER BUILDING (667-4), DRAKE VILLAGE COMPLEX, ARLINGTON HOUSING AUTHORITY - RECLAIM AND REPAVE PARKING LOTS AND DRIVEWAYS, REMOVE AND RESET GRANITE CURBING, REMOVE AND REPLACE HOT MIX ASPHALT SIDEWALKS/WALKWAYS, INSTALL NEW CONCRETE WHEELCHAIR RAMPS, REPAIR AND REPLACE SEWER MANHOLE, SEWER PIPES, AND DRAINPIPES, LOAM AND SEED ALL DISTURBED AREA PER PLANS AND SPECIFICATIONS.

7a.Project Type:

- | | |
|---|--|
| 1. <input type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Limited Project Driveway Crossing | 4. <input type="checkbox"/> Commercial/Industrial |
| 5. <input type="checkbox"/> Dock/Pier | 6. <input type="checkbox"/> Utilities |
| 7. <input type="checkbox"/> Coastal Engineering Structure | 8. <input type="checkbox"/> Agriculture (eg., cranberries, forestry) |



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

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Provided by MassDEP:
MassDEP File #:
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9. ☐ Transportation

10. ☒ Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. ☐ Yes ☒ No

If yes, describe which limited project applies to this project:

2. Limited Project

8. Property recorded at the Registry of Deeds for:

a. County:

b. Certificate:

c. Book:

d. Page:

SOUTHERN MIDDLESEX

9171

327

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

1. Buffer Zone & Resource Area Impacts (temporary & permanent):

☐ This is a Buffer Zone only project - Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.

2. Inland Resource Areas: (See 310 CMR 10.54 - 10.58, if not applicable, go to Section B.3. Coastal Resource Areas)

Resource Area

Size of Proposed Alteration

Proposed Replacement (if any)

a. ☐ Bank

1. linear feet

2. linear feet

b. ☐ Bordering Vegetated Wetland

1. square feet

2. square feet

c. ☐ Land under Waterbodies and Waterways

1. Square feet

2. square feet

3. cubic yards dredged

d. ☐ Bordering Land Subject to Flooding

1. square feet

2. square feet

3. cubic feet of flood storage lost

4. cubic feet replaced

e. ☐ Isolated Land Subject to Flooding

1. square feet

2. cubic feet of flood storage lost

3. cubic feet replaced

f. ☒ Riverfront Area

1. Name of Waterway (if any)

2. Width of Riverfront Area (check one)

☐ 25 ft. - Designated Densely Developed Areas only

☐ 100 ft. - New agricultural projects only

☒ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project

106338

square feet

4. Proposed Alteration of the Riverfront Area:

37994

12505

25489



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1899585
City/Town:ARLINGTON

a. total square feet b. square feet within 100 ft. c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI? ☒ Yes ☐ No

6. Was the lot where the activity is proposed created prior to August 1, 1996? ☒ Yes ☐ No

3.Coastal Resource Areas: (See 310 CMR 10.25 - 10.35)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Designated Port Areas	Indicate size under	Land under the ocean below,
b. <input type="checkbox"/> Land Under the Ocean	1. square feet	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes, below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	1. square feet	2. cubic yards dune nourishment
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab, crea.
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet	

4.Restoration/Enhancement

☐ Restoration/Replacement

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please entered the additional amount here.

a. square feet of BVW b. square feet of Salt Marsh



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

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Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1899585
City/Town:ARLINGTON

5. Projects Involves Stream Crossings

☐ Project Involves Streams Crossings

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.

a. number of new stream crossings

b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage of Endangered Species program (NHESP)?

a. ☐ Yes ☒ No

If yes, include proof of mailing or hand delivery of NOI to:
Natural Heritage and Endangered Species
Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

b. Date of map: AUGUST 2021

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18)...

c. Submit Supplemental Information for Endangered Species Review * (Check boxes as they apply)

1. ☐ Percentage/acreage of property to be altered:

(a) within Wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

2. ☐ Assessor's Map or right-of-way plan of site

3. ☐ Project plans for entire project site, including wetland resource areas and areas outside of wetland jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

a. ☐ Project description (including description of impacts outside of wetland resource area & buffer zone)

b. ☐ Photographs representative of the site

c. ☐ MESA filing fee (fee information available at: <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/mesa-fee-schedule.html>.)

Make check payable to "Natural Heritage & Endangered Species Fund" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

d. ☐ Vegetation cover type map of site

e. ☐ Project plans showing Priority & Estimated Habitat boundaries

d. OR Check One of the following

1. ☐ Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <http://www.mass.gov/eea/agencies/dfg/dfw/laws-regulations/cmr/321-cmr-1000-massachusetts-endangered-species-act.html#10.14>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. ☐ Separate MESA review ongoing.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1899585
City/Town:ARLINGTON

a. NHESP Tracking Number

b. Date submitted to NHESP

3. ☐ Separate MESA review completed.

Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review...

2. For coastal projects only, is any portion of the proposed project located below the mean high waterline or in a fish run?

a. ☒ Not applicable - project is in inland resource area only

b. ☐ Yes ☐ No

If yes, include proof of mailing or hand delivery of NOI to either:

South Shore - Cohasset to Rhode Island, and the Cape & Islands:

North Shore - Hull to New Hampshire:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 S. Rodney French Blvd
New Bedford, MA 02744

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930

If yes, it may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office.
For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional office.

3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

a. ☐ Yes ☒ No

If yes, provide name of ACEC (see instructions to WPA Form 3 or DEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC Name

4. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?

a. ☐ Yes ☒ No

5. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L.c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L.c. 130, § 105)?

a. ☐ Yes ☒ No

6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?

a. ☒ Yes, Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:

1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol.2, Chapter 3)

2. ☒ A portion of the site constitutes redevelopment

3. ☐ Proprietary BMPs are included in the Stormwater Management System

b. ☐ No, Explain why the project is exempt:

1. ☐ Single Family Home



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1899585
City/Town:ARLINGTON

☐

2. ☐ Emergency Road Repair

3. ☐ Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department by regular mail delivery.

1. ☐ USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. ☒ Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
3. ☒ Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s).
4. ☒ Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
4. ☒ List the titles and dates for all plans and other materials submitted with this NOI.

a. Plan Title: **b. Plan Prepared By:** **c. Plan Signed/Stamped By:** **c. Revised Final Date:** **e. Scale:**

PARKING LOT
IMPROVEMENT
PROJECT, HAUSER
BUILDING (667-4), 37
DRAKE ROAD,
ARLINGTON
HOUSING
AUTHORITY,
ARLINGTON,
MASSACHUSETTS,
EOHLC PROJECT
#010130, NOTIC OF
INTENT

MICHAEL J. CARTER,
P.E., P.L.S.

MAY 30, 2025

5. ☐ If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. ☐ Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. ☒ Attach NOI Wetland Fee Transmittal Form.

9. ☒ Attach Stormwater Report, if needed.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1899585
City/Town:ARLINGTON

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number	3. Check date
4. State Check Number	5. Check date
6. Payer name on check: First Name	7. Payer name on check: Last Name

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

Jack Nagle, Town of Arlington	6/4/2025
1. Signature of Applicant	2. Date
Jack Nagle, Town of Arlington	6/4/2025
3. Signature of Property Owner(if different)	4. Date
Michael Carter, P.E.	6/4/2025
5. Signature of Representative (if any)	6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in Section C, Items 1-3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 3 - Notice of Wetland Fee Transmittal
Form

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1899585
City/Town: ARLINGTON

A. Applicant Information

1. Applicant:

a. First Name	JACK	b. Last Name	NAGLE
c. Organization	ARLINGTON HOUSING AUTHORITY		
d. Mailing Address	740 MASSACHUSETTS AVENUE		
e. City/Town	ARLINGTON	f. State	MA
g. Zip Code	02476		
h. Phone Number	7816463400	i. Fax	
j. Email	jnagle@arlingtonhousing.org		

2. Property Owner: (if different)

a. First Name	JACK	b. Last Name	NAGLE
c. Organization	ARLINGTON HOUSING AUTHORITY		
d. Mailing Address	740 MASSACHUSETTS AVENUE		
e. City/Town	ARLINGTON	f. State	MA
g. Zip Code	02476		
h. Phone Number	7816463400	i. Fax	
j. Email	jnagle@arlingtonhousing.org		

3. Project Location:

a. Street Address	16-38 DRAKE ROAD	b. City/Town	ARLINGTON
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Are you exempted from Fee? ☐ (YOU HAVE SELECTED 'YES')

Note: Fee will be exempted if you are one of the following:

- City/Town/County/District
- Municipal Housing Authority
- Indian Tribe Housing Authority
- MBTA

State agencies are only exempt if the fee is less than \$100

B. Fees

Activity Type	Activity Number	Activity Fee	RF Multiplier	Sub Total
	City/Town share of filling fee	State share of filing fee	Total Project Fee	
	\$0.00	\$0.00	\$0.00	

May 30, 2025

Conservation Commission
Town of Arlington
730 Massachusetts Avenue, Annex
Arlington, MA 02476

RE: Hauser Building (667-4), 37 Drake Road,
Drake Village Complex, Arlington Housing Authority,
Parking Lot Improvement Project
Notice of Intent
Local Bylaw NOI Filing Fee

Dear Mr. Morgan:

GCG Associates, Inc. on behalf of the Arlington Housing Authority, hereby submitting a Notice of Intent for the Hauser Building (667-4), Drake Village Complex, Arlington Housing Authority, Parking Lot Improvement Project. This is a Town of Arlington Housing Authority project and is exempted from the bylaw filing fees per Rule #3 under the NOI Guideline – Bylaw filing fees and transmittal Form. A check of \$150 is attached for the legal notice charge for this project.

If you have any questions, please do not hesitate to contact our office.

Respectfully Submitted,
GCG Associates

Michael J. Carter

Michael J. Carter, P.E.
Project Manager

GCG ASSOCIATES, INC.
84 MAIN STREET
WILMINGTON, MA 01887

0181
53-7158/2113

Date 5/30/25

Pay to the
Order of TOWN OF ARLINGTON

\$ 150.00

ONE HUNDRED AND FIFTY

Dollars

Security details
on back

STONEHAM BANK

For 24108

 MP

⑆211371586⑆ 94557281⑆

0181

TO REORDER VISIT WWW.CARDGELINKS.COM

**Wetland WPA – Form 3 – Notice of Intent
Parking Lot Improvement Project
Hauser Building (667-4), 37 Drake Road – (Map 62 - Lot 1-4A), Arlington Housing Authority,
Arlington, Massachusetts**

Date: May 30, 2025

Project Summary:

On behalf of the applicant, Arlington Housing Authority, GCG Associates hereby submits a Notice of Intent application for a project located at 16-38 Drake Road. The subject site is a 4.45± acre parcel known as Parcel ID 62-1-4.A under the Arlington Assessors department. The subject site is comprised of two elderly housing developments: Drake Village, which consists of 71 dwelling units in nine two-story buildings built in 1961, and the Hauser Building, which is a 144-unit seven story brick-faced steel frame midrise completed in 1975. Both developments are physically and socially integrated with the residents sharing the services, facilities and amenities offered by the common spaces at the Hauser and the open spaces of the Drake village, allowing both developments to function as a single campus.

This Notice of Intent (NOI) is considered the second phase of an existing Order of Conditions (OOC), MassDEP File #091-0343, Middlesex South Registry of Deeds, Book 81380, Page 51; DHCD Project #010103, issued 09-02-2022. The current OOC covers the proposed Hauser Building entrance pavement, landscaping, site furnishings and drainage improvements under a separate improvement grant. The work has been substantially completed; additional planting is ongoing and expected to be completed within the next few months. The current OOC # 091-0343 will expire on 11/16/2025.

Existing Conditions: The site is currently under an Order of Conditions (OOC # 091-0343), for the “Creative Place Making Grant Drake Village” project, and is under construction and substantially completed.

The remaining of the Drake Village Complex’s parking area and drive aisle pavements are in fair to poor condition and in need of replacement. Conditions of pavement settlement, shrinkage cracking, trench patching exist throughout the paved areas and showing evidence of the pavement base course. On-site sidewalks and walkways are not up to the current ADA/AAB standards and require an upgrade. These two developments are elderly and disable public housing facilities, meeting ADA/AAB requirements are essential.

On-site drainage system, and sewer pipes were video inspected, sections of the drainpipe and sewer pipe and a sewer manhole were found damaged by the tree roots and require replacement.

Proposed Work:

This NOI proposed to repave the remaining parking area and associated improvements in the Drake Village Complex. The proposed works consist of reclaiming and re-paving the parking areas and driveway within its existing footprint; Replacement of approximately 140 linear feet of sewer pipes, a sewer manhole, and approximately 170 linear feet of drainpipes, which were damaged by the tree roots; Reset on-site granite curbing, remove and replace existing sidewalk/walkway, wheelchair ramp, and upgrade to comply with the current ADA/AAB requirements. This phase of the site improvements is funded by the State of Massachusetts, Executive Office of Housing and Livable Communities (EOHLC project # 010130) and the Arlington Housing Authority. Hence, a new NOI application is required.

Jurisdiction:

Bank (310 CMR 10.54) and Riverfront Area (310 CMR 10.58)

The subject resource area is Mill Brook, which is located just northeasterly of the subject site and flows east from the Arlington/Lexington town line. The wetland boundary within the Town of Lexington was delineated by Norse Environmental Services, Inc. on January 25, 2022, and field located by GCG Associates, Inc. in January 2022. Wetland Boundary within the Town of Arlington was based on the Town

of Arlington, Arlington Reservoir – Phase 2 Plan, as prepared by Kyle Zick Landscaping Architecture, Inc. Dated 02/04/2021. The onsite 100-ft Wetland Buffer Limit is located within the onsite 200-ft Riverfront Area. This Riverfront area was previously developed/disturbed in 1961 and 1975.

There is no Estimated Habitat of Rare Wildlife and/or Priority Habitats of Rare Species identified in the vicinity of the project Site.

The site soil consists of the majority of (602) Urban Land, and section of (655) Udorthents, wet substratum soil along the north and western property boundary, with no assigned Hydrologic Soil Group (HSG) rating. see attached Web Soil Survey reports.

There is approximately 122,370± sq. ft. of impervious area within the overall project site, 69,514± sq. ft. of which is located within the 200-ft Riverfront Area, the proposed works are limited to the existing paved surface (parking area and driveway), and existing sidewalk/walkway only. There is approximately 12,505 s.f. of hot mix asphalt replacement within the 100 feet Riverfront Area and 25,489 s.f. of hot mix asphalt replacement work within the 100 to 200 feet riverfront area.

Riverfront Area Alternative Analysis

Costs, Existing Technology, Proposed Use and Logistics:

Costs. There is no economical profit related to this project, this is an elderly public housing and re-construction project to maintain vehicle access, pedestrian and residents of limited mobility accessibility, and bicycle safety within the Drake Village and Hauser elderly/disable housing developments. These two developments were constructed in 1961 and 1975, respectively. The existing parking area, driveway, sidewalk, walking path, within the two integrated developments are existing and in poor and hazardous conditions and beyond repair or repave. The proposed reclaim and reconstruction are necessary to maintain the facilities' accessibility.

Existing Technology. Both Hauser Building and Drake Village developments share the paved driveway and parking areas. The existing pavement is in poor condition with structural and shrinkage cracking, and trench patching throughout the site. Sections of the sidewalk and walkways are narrow (3 to 3-1/2 feet), also lack wheelchair ramps and safety crossing points. Proposed improvements will include reclaiming and repaving the site driveway and parking areas within its existing footprint, reset existing granite curbing and removing, repaving and widening walkway width to 5-foot minimum where necessary, installing new wheelchair ramps and associated crosswalks. Based on the current conditions, reclaiming and replacing the pavement area is the most cost-effective solution to provide safety vehicle and pedestrian access, and widening the sidewalk is the only solution to comply with the ADA/AAB standards. Since this is an existing development, relocating the facility outside the Riverfront Area is unfeasible.

Proposed Use and Logistics. The objective for this project is to maintain and improve existing physical infrastructure (paved driveway, parking areas, and pedestrian sidewalk/walkway) with safer accessibility.

The proposed repaving of the parking lot and driveway is a continuation of the site improvements as funding is available; this re-pavement project is the repair and maintenance of existing infrastructures. There is no change in the use of the facilities and no change of the number of dwelling units.

The proposed project includes the following objectives:

- Renew and replace failing onsite pavement structures and eliminate any tripping hazardous conditions.
- Upgrade sidewalk/walkway and wheelchair ramp facilities to meet the latest ADA/AAB requirements, which is critical for these elderly/disable housing developments.

No Significant Adverse Impact. The proposed improvements are located within their existing footprint areas. The sidewalk/walkway replacement will occur at the existing locations and widen to 5 feet minimum width (where necessary) with rounding to comply with the ADA/AAB requirements. Majority of the walkway widening abuts lawn area as disconnected impervious surface. Erosion control silt sack and wattle have

been proposed during construction to protect the nearby wetlands. Therefore, there will be no significant adverse impact on the wetland resource areas.

Land Subject to Flooding (Bordering and Isolated Areas) (310 CMR 10.57)

There is land subject to flooding (Flood Hazard Zone 'AE') identified along Mill Brook by FIRM Panels 25017C0412E and 25017C0416E, effective date 06-04-2010. The base flood elevations along the Drake Village Complex property boundaries were at elevations 154.5 and 155.0 feet. Based on the field survey, the developed portion of this site (and proposed work limits) is above elevation 156 and above the base flood elevation.

Proposed Conditions: This is a "re-development project" per MSH (Massachusetts Stormwater Handbook) Standard #7 – Remedial projects specifically designed to provide improved stormwater management. The proposed improvements are intended to meet the stormwater management requirements to the maximum extent practicable as required by (Massachusetts Stormwater Handbook) MSH for the redevelopment project (Standard #7).

The existing paved parking area and driveway will be reclaimed and repaved within the existing footprint with existing granite curbing reset to provide the proper reveal. The site sidewalk/walkway will be removed, repaved and upgraded to comply with the ADA/AAB standards with new concrete wheelchair ramps.

Drainpipes, sewer pipes and sewer manhole damaged by the tree roots will be replaced with pre-cast concrete structure, new reinforced concrete drainpipe (RCP) and new sewer PVC pipe. Which will eliminate pipe blockages and improve the drainage quality.

Erosion control has been proposed along the down slope side of the site along Mill Brook, with silt sack protection installed in all catch basins during construction.

Arlington Regulations for Wetland Protection Variance Request

Section 25.D (Adjacent Upland Resource Area)

Requirement: No activities or work, other than passive passage and resource area enhancement, are permitted within the first 25 feet of the Adjacent Upland Resource Area. Except as part of Resource Area Enhancement or an Ecological Restoration Project, no vegetation may be disturbed, as leaf litter and natural debris shall remain in place.

Requested: Allow work to occur within the 25-ft No Disturbance area, specifically for the work at the northerly parking area and the patio behind #31 Drake Road, both paved areas are pre-existing nonconforming conditions and to be repaved within the existing footprint. All disturbed areas will be restored with loam and seed.

Stormwater Management Requirements. (For Redevelopment Project)

Standard #1 - no new outfall untreated. This project does not create any new outfall.

Standards #2 – no increase of peak runoff, (maximum extent practicable for re-development project). The project will repave the existing impervious surface. Minor impervious sidewalk/walkway widening will not impose significant adverse impact on the peak runoff and therefore meets the maximum extent practicable requirements for re-development project.

Standard #3 – Groundwater Recharge, (maximum extent practicable for re-development project). The proposed improvements are within the existing impervious surface. No additional groundwater recharge is required under the maximum extent practicable for re-development project conditions.

Standard #4 – TSS removal - as a minimum, pre-treatment should be provided for redevelopment project. There is an existing catch basin system on-site. Replacement of the damaged drainpipe, sewer pipe and sewer structure are proposed to improve the drainage qualities.

Standard #5 – LUHPPL. Not applicable.

Standard #6 - Zone II. Not applicable.

Standard #7 – This project is a redevelopment project and requires meeting the stormwater management standards to the maximum extent practicable.

Standard #8 - Construction period O&M plan is included in the NOI package.

Standard #9 - Long term O&M Plan is included in the NOI package.

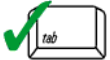
Standard #10 – No Illicit discharge – a Statement is included in the NOI package.



Checklist for Stormwater Report

A. Introduction

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the [Massachusetts Stormwater Handbook](#). The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.¹ This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.



Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



Michael J. Carter, P.E., P.L.S.

05/30/2025

Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

- ☐ New development
- ☒ Redevelopment
- ☐ Mix of New Development and Redevelopment



Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- ☐ No disturbance to any Wetland Resource Areas
- ☐ Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- ☐ Reduced Impervious Area (Redevelopment Only)
- ☒ Minimizing disturbance to existing trees and shrubs
- ☐ LID Site Design Credit Requested:
 - ☐ Credit 1
 - ☐ Credit 2
 - ☐ Credit 3
- ☐ Use of "country drainage" versus curb and gutter conveyance and pipe
- ☐ Bioretention Cells (includes Rain Gardens)
- ☐ Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- ☐ Treebox Filter
- ☐ Water Quality Swale
- ☐ Grass Channel
- ☐ Green Roof
- ☐ Other (describe): _____

Standard 1: No New Untreated Discharges

- ☒ No new untreated discharges
- ☐ Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- ☐ Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.



Checklist for Stormwater Report

Checklist (continued)

Standard 2: Peak Rate Attenuation

- ☐ Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.
- ☐ Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
- ☐ Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

- ☒ Soil Analysis provided.
- ☐ Required Recharge Volume calculation provided.
- ☐ Required Recharge volume reduced through use of the LID site Design Credits.
- ☐ Sizing the infiltration, BMPs is based on the following method: Check the method used.
 - ☐ Static
 - ☐ Simple Dynamic
 - ☐ Dynamic Field¹
- ☐ Runoff from all impervious areas at the site discharging to the infiltration BMP.
- ☐ Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
- ☐ Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- ☐ Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:
 - ☐ Site is comprised solely of C and D soils and/or bedrock at the land surface
 - ☐ M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
 - ☐ Solid Waste Landfill pursuant to 310 CMR 19.000
 - ☐ Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
- ☐ Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
- ☐ Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

- ☐ The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
- ☐ Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
 - Provisions for storing materials and waste products inside or under cover;
 - Vehicle washing controls;
 - Requirements for routine inspections and maintenance of stormwater BMPs;
 - Spill prevention and response plans;
 - Provisions for maintenance of lawns, gardens, and other landscaped areas;
 - Requirements for storage and use of fertilizers, herbicides, and pesticides;
 - Pet waste management provisions;
 - Provisions for operation and management of septic systems;
 - Provisions for solid waste management;
 - Snow disposal and plowing plans relative to Wetland Resource Areas;
 - Winter Road Salt and/or Sand Use and Storage restrictions;
 - Street sweeping schedules;
 - Provisions for prevention of illicit discharges to the stormwater management system;
 - Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
 - Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
 - List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
- ☒ A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.
 - ☐ Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
 - ☐ is within the Zone II or Interim Wellhead Protection Area
 - ☐ is near or to other critical areas
 - ☐ is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
 - ☐ involves runoff from land uses with higher potential pollutant loads.
 - ☐ The Required Water Quality Volume is reduced through use of the LID site Design Credits.
 - ☐ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.



Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

- ☐ The BMP is sized (and calculations provided) based on:
 - ☐ The ½" or 1" Water Quality Volume or
 - ☐ The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
- ☐ The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
- ☐ A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

- ☐ The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.
- ☐ The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted **prior to** the discharge of stormwater to the post-construction stormwater BMPs.
- ☐ The NPDES Multi-Sector General Permit does **not** cover the land use.
- ☐ LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.
- ☐ All exposure has been eliminated.
- ☐ All exposure has **not** been eliminated and all BMPs selected are on MassDEP LUHPPL list.
- ☐ The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

- ☐ The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
- ☐ Critical areas and BMPs are identified in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

- ☒ The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
 - ☐ Limited Project
 - ☐ Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
 - ☐ Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
 - ☐ Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
 - ☐ Bike Path and/or Foot Path
- ☒ Redevelopment Project
- ☐ Redevelopment portion of mix of new and redevelopment.
- ☒ Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.
- ☒ The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
 - Construction Period Operation and Maintenance Plan;
 - Names of Persons or Entity Responsible for Plan Compliance;
 - Construction Period Pollution Prevention Measures;
 - Erosion and Sedimentation Control Plan Drawings;
 - Detail drawings and specifications for erosion control BMPs, including sizing calculations;
 - Vegetation Planning;
 - Site Development Plan;
 - Construction Sequencing Plan;
 - Sequencing of Erosion and Sedimentation Controls;
 - Operation and Maintenance of Erosion and Sedimentation Controls;
 - Inspection Schedule;
 - Maintenance Schedule;
 - Inspection and Maintenance Log Form.
- ☒ A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

- ☐ The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has **not** been included in the Stormwater Report but will be submitted **before** land disturbance begins.
- ☒ The project is **not** covered by a NPDES Construction General Permit.
- ☐ The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
- ☐ The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

- ☒ The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
 - ☒ Name of the stormwater management system owners;
 - ☒ Party responsible for operation and maintenance;
 - ☒ Schedule for implementation of routine and non-routine maintenance tasks;
 - ☐ Plan showing the location of all stormwater BMPs maintenance access areas;
 - ☐ Description and delineation of public safety features;
 - ☐ Estimated operation and maintenance budget; and
 - ☐ Operation and Maintenance Log Form.
- ☐ The responsible party is **not** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
 - ☐ A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
 - ☐ A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges

- ☒ The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
- ☒ An Illicit Discharge Compliance Statement is attached;
- ☐ NO Illicit Discharge Compliance Statement is attached but will be submitted **prior to** the discharge of any stormwater to post-construction BMPs.

APPENDIX A: Project Maps



HAUSER BUILDING, DRAKE VILLAGE
ARLINGTON HOUSING AUTHORITY
USGS MAP

GCG ASSOCIATES, INC.

WILMINGTON

MASSACHUSETTS

SCALE: 1"=1000'

DATE: 05/29/2025

JOB NO. \FILE NAME:
 24108-USGS.DWG

DESIGNED BY: A.C.M.
 DRAWN BY: A.C.M.
 CHECKED BY: M.J.C.

PLAN NO.
 1 OF 1

National Flood Hazard Layer FIRMette

71°11'45"W 42°25'49"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

Without Base Flood Elevation (BFE)
Zone A, V, A99
With BFE or Depth Zone AE, AO, AH, VE, AR
Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee. See Notes. Zone X

Area with Flood Risk due to Levee Zone D

OTHER AREAS

NO SCREEN
Area of Minimal Flood Hazard Zone X
Effective LOMRs
Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

Channel, Culvert, or Storm Sewer
Levee, Dike, or Floodwall

OTHER FEATURES

Cross Sections with 1% Annual Chance Water Surface Elevation
Coastal Transect
Base Flood Elevation Line (BFE)
Limit of Study
Jurisdiction Boundary
Coastal Transect Baseline
Profile Baseline
Hydrographic Feature

MAP PANELS

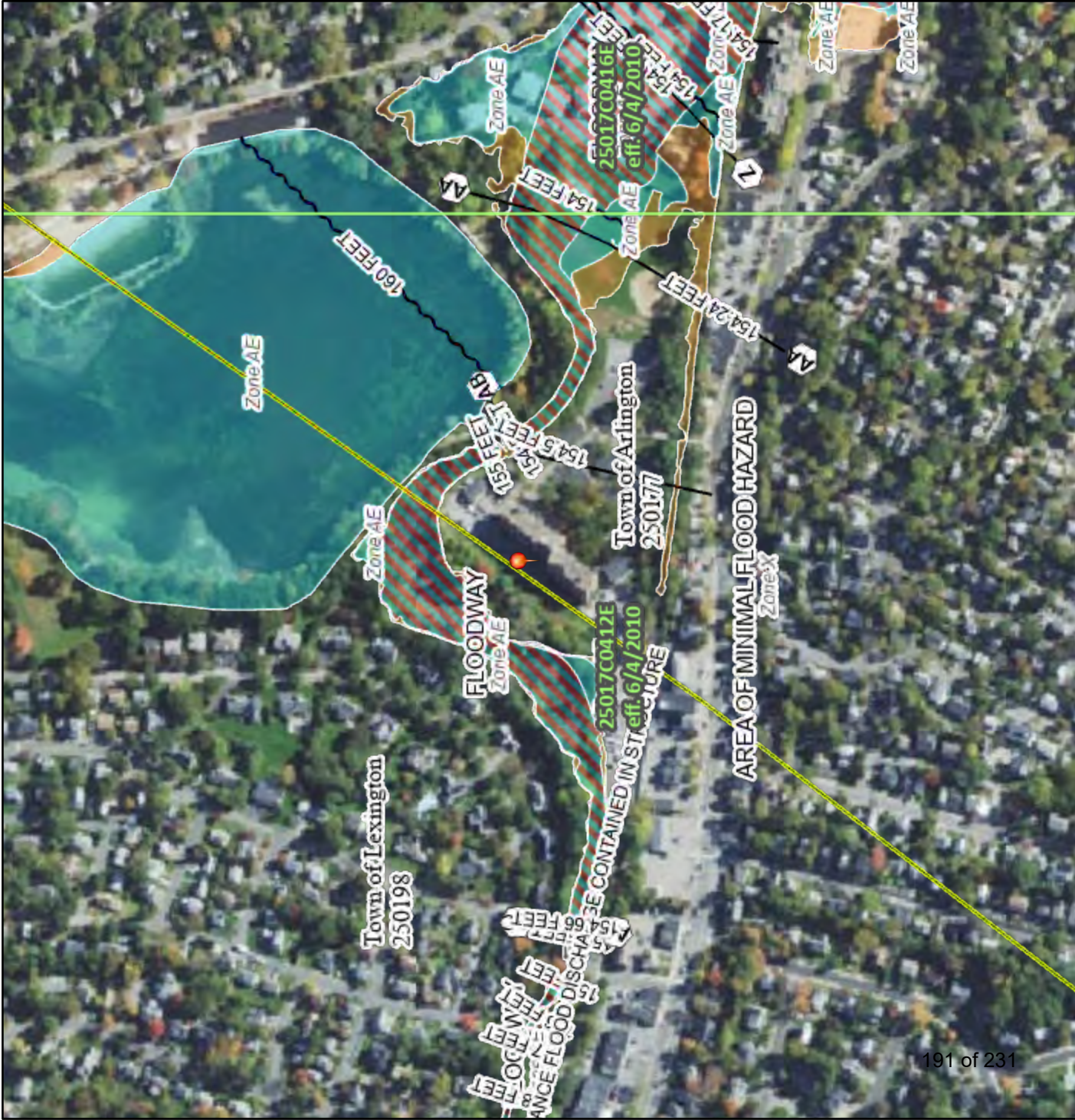
Digital Data Available
No Digital Data Available
Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

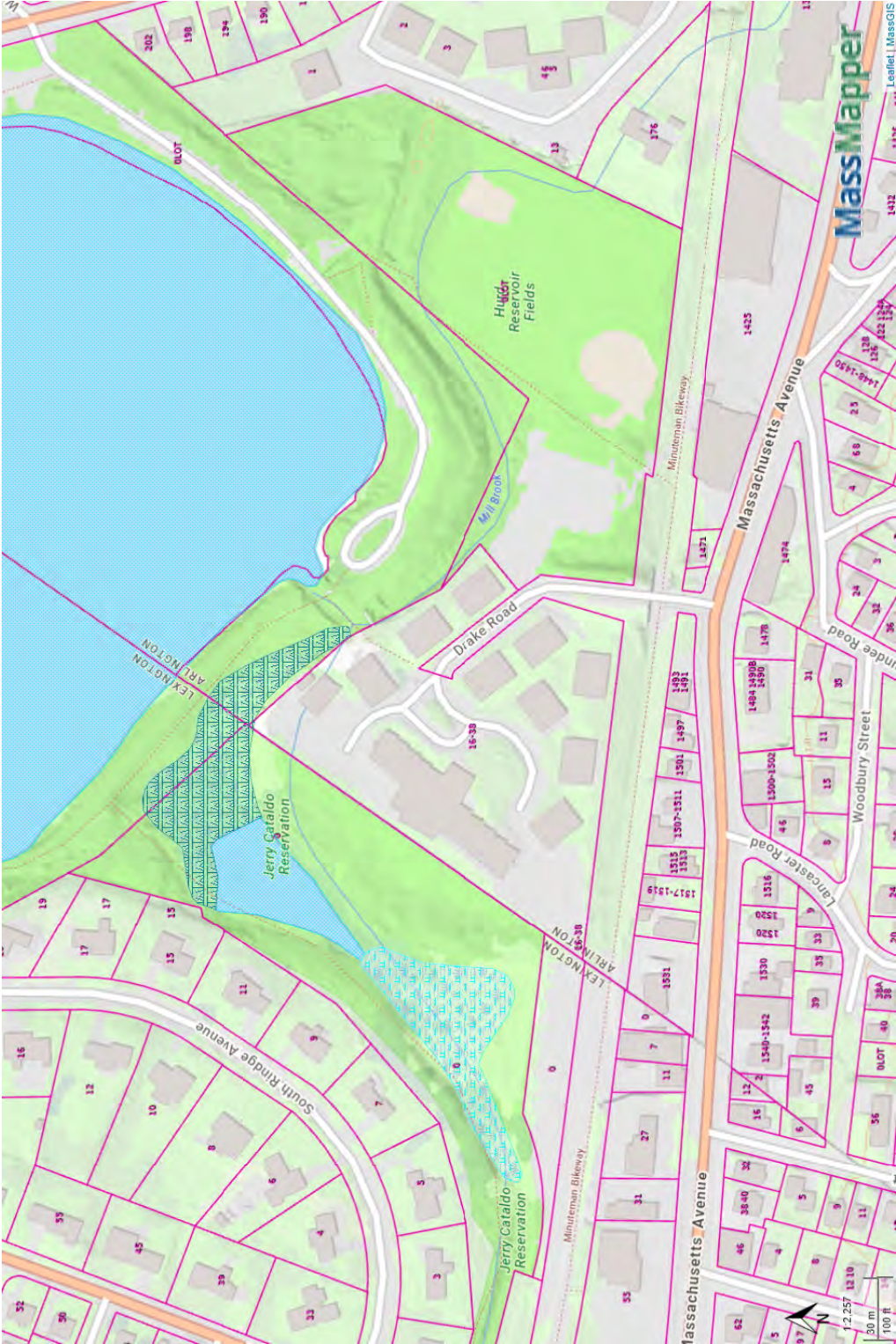
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/28/2025 at 2:17 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Hauser Building, Arlington Housing Authority



- Zone A
- Zone IIs
- NHESP Priority Habitats of Rare Species
- NHESP Estimated Habitats of Rare Wildlife
- DEP Wetlands Detailed With Outlines
- Barrier Beach System
- Barrier Beach-Deep Marsh
- Barrier Beach-Wooded Swamp Mixed Trees
- Barrier Beach-Coastal Beach
- Barrier Beach-Coastal Dune
- Barrier Beach-Marsh
- Barrier Beach-Salt Marsh
- Barrier Beach-Shrub Swamp
- Barrier Beach-Wooded Swamp Coniferous
- Barrier Beach-Wooded Swamp Deciduous
- Bog
- Coastal Bank Bluff or Sea Cliff
- Coastal Beach
- Coastal Dune
- Cranberry Bog
- Deep Marsh
- Barrier Beach-Open Water
- Open Water
- Rocky Intertidal Shore
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Tidal Flat
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees
- Property Tax Parcels

APPENDIX B:
Soil Map & Hydrologic Soil Group (HSG) Classification

Soil Map—Middlesex County, Massachusetts
(Hauser Building, Arlington Housing Authority)



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Middlesex County, Massachusetts
Survey Area Data: Version 24, Aug 27, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 1, 2023—Sep 1, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
602	Urban land	5.3	56.8%
629C	Canton-Charlton-Urban land complex, 3 to 15 percent slopes	0.3	3.0%
655	Udorthents, wet substratum	3.8	40.2%
Totals for Area of Interest		9.4	100.0%

Hydrologic Soil Group—Middlesex County, Massachusetts
(Hauser Building, Arlington Housing Authority)



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

Soil Rating Lines

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Points

A

A/D

B

B/D

C

C/D

D

Not rated or not available

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
602	Urban land		5.3	56.8%
629C	Canton-Charlton-Urban land complex, 3 to 15 percent slopes	A	0.3	3.0%
655	Udorthents, wet substratum		3.8	40.2%
Totals for Area of Interest			9.4	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

APPENDIX C: Stormwater Standards

STORMWATER AND DRAINAGE OPERATION AND MAINTENANCE PLAN

Name of Project: Parking Lot Improvement Project

Location: 37 Drake Road, Arlington, Massachusetts 02476

Name of Owner/Operator: Arlington Housing Authority, 4 Winslow Street, Arlington, MA 02474

Owner/Operator Signature: _____, Date _____

I. INTRODUCTION

The maintenance program below provides a general plan with specific requirements for stormwater management controls for **Hauser Building, 37 Drake Road, Arlington Housing Authority**. The program is based on the recommended standards presented in the DEP Stormwater Management Policy Handbook Volume 2, Chapter 2 and Guidelines for Stormwater Management and Controlling Urban Runoff: A Practical Manual for Planning and Designing Urban BMPs, by Thomas R. Schueler, July 1987.

II. RESPONSIBILITY AND IMPLEMENTATION

The property owner is the owner of all components of the drainage system as listed in Section III below, until property ownership is transferred, at which the drainage system becomes the property of the successive owner. The implementation, execution, and financing of this maintenance program and emergency repairs shall be the responsibility of the property owner until property ownership is transferred, at which time maintenance and repairs shall be the responsibility of the successive owner.

III. GENERAL REQUIREMENTS

Construction activities shall conform to the approved site plans and any other regulations or requirements of the Town of Arlington. Mulch filter tubes or wattle, silt fence, and silt sack shall be installed at the limit of work prior to construction. All sediment controls shall be in place before construction shall begin and shall be properly maintained throughout the course of construction. During construction, silt laden runoff shall not be permitted to enter the nearby wetlands or abutting properties.

All BMPs and sediment controls shall be inspected, by the Applicant, on a weekly basis and within 24 hours of a rain event that generates more than ½" of rain in a 24 hour period. Pavement should be swept at the end of each construction day. Once each BMP is installed it shall be operated and maintained in accordance with the Post Construction Operation & Maintenance Plan.

Should any dewatering activities be required, the Applicant shall make certain that all pumped water is free of sediment prior to discharging to the nearby wetlands. The methods for removing any sediment shall be approved by the Town prior to any dewatering activities commence.

IV. BMP MAINTENANCE

Maintenance of Facilities: The Owner agrees to comply with a minimum maintenance schedule as follows:

- A. Street Sweeping: Street sweeping roadways and parking areas twice a year minimum. (early Spring and late Fall)
- B. Deep Sump Hooded Catch Basin: Inspect and clean catch basin four times per year. Catch basin grate should be inspected every 4 times per year and after every major storm. During each inspection, the drains should be inspected for damage and any evidence of blockages. All accumulated trash, sediment, debris, etc., should be removed as necessary. Clean catch basin sump when sediment depth reaches 1/3 of the sump.
- C. Stormceptor Water Quality Unit (WQU): Stormceptor inlet unit should be maintained per the manufacturer's recommendations, the Stormceptor should be inspected every 6 months in the first year to determine the oil and sediment accumulation rate. In subsequent years, inspections are based on first-year observations. Maintenance is to be performed when the sediment depth reached 8 inches with a standard vacuum truck. Inspection shall be performed immediately after an oil, fuel or chemical spill. A licensed waste management company should remove oil and sediment and dispose responsibly. All sediment removed should be properly handled and disposed of in accordance with local, state, and federal guidelines and regulations.
- D. Inspect soil and repair eroded areas monthly. Re-mulch void areas as needed. Remove litter and debris monthly. Treat diseased vegetation as needed. Remove and replace dead vegetation twice per year (spring and fall). Replace mulch every two years, in the early spring.
- E. Grassed Area: Maintain vegetation; mow or cut back if impedes water movement or grass health. Inspect eroded areas repair and reseed as needed.
- F. Fertilizer used for property shall be low in Nitrogen and Phosphorous free.

V. GENERAL

Dispose of the collected grit, sediment and debris in accordance with current Town/City State and Federal guidelines and regulations.

Operation and Maintenance Budget

Inspection: \$400 per year

Mowing: \$400 per year

Catch Basin and WQU inlet maintenance: \$600 per year

Total annual budget = \$1,400

Sample Stormwater System Inspection Log/Checklist

INSPECTOR'S NAME &

DATE: NAME & ADDRESS

OF FACILITY:

GENERAL OBSERVATIONS (IS WATER

	Checked? (Y/N)	Maintenance Needed? (Y/N)	Maintenance Completed/ Observations & Remarks
Catch Basins			
CB			
CB			
CB			
CB			
CB			
CB			
Water Quality Unit (WQU-inlet)			
Stormceptor STC 450i with Inlet-Grate			
Grassed Area			
Grassed Area			
Street Sweeping			
Roadways and Parking Areas			

Attach pictures, summary, sketches, and notes as appropriate.

Standard #10: All illicit discharges to the stormwater management system are prohibited.

I. STATEMENT

This site as shown on the plan titled "Parking Lot Improvement Project, Hauser Building (667-4), 37 Drake Road, Arlington Housing Authority, Arlington, Massachusetts, EOHLC Project #010130", prepared by GCG Associates, Inc. and dated May 30, 2025 does not contain any illicit discharges, this was confirmed using visual screening as required by standard 10 of the "Massachusetts Stormwater Handbook" Vol. 1, Ch. 1 page 25. The project proponent, owner, or lessee (in perpetuity) must comply with local, state, and federal regulations for the discharge of illicit discharges from the site. Illicit discharges are discharges that are not entirely comprised of storm water. Notwithstanding the foregoing, an illicit discharge does not include discharges from the following activities:

- Fire fighting
- Water line flushing
- Landscape irrigation
- Uncontaminated ground water
- Potable water sources
- Foundation drains
- Air conditioning condensation
- Footing drains
- Individual car washing
- Water used for street washing and water used to clean residential buildings without detergents

The project proponent, owner, or lessee (in perpetuity) shall adhere to this report on file with the Town of Arlington Conservation Commission.

APPENDIX D:
Project Abutter Information

Hauser Building (667-4), Arlington Housing Authority
Parking Lot Improvement Project
37 Drake Road, Arlington, MA
GCG File #24108, EOHLC #010130



CERTIFIED ABUTTERS LIST

Date: May 28, 2025
 Subject Property Address: 16-38 DRAKE RD Arlington, MA
 Subject Property ID: 62-1-4.A
 Search Distance: 100 Feet - Conservation

Parcel ID:	Property Location	Owner 1	Owner 2	MAILING ADDRESS			
				Mailing Address 1	Mailing Address 2	Town	State Zip
61-1-3	0-LOT MASS AVE	TOWN OF ARLINGTON PARK		730 MASS AVE		ARLINGTON	MA 02476
61-1-4	0-LOT LOWELL ST	TOWN OF ARLINGTON PARK		730 MASS AVE		ARLINGTON	MA 02476
62-1-3.B	1491--1493 MASS AVE	VENTURA BRIGITTE		1491 MASS AVE		ARLINGTON	MA 02476
62-1-4.A	16--38 DRAKE RD	ARLINGTON HOUSING AUTHORITY	DRAKE VILLAGE	4 WINSLOW ST		ARLINGTON	MA 02474
62-1-6	1497 MASS AVE	PANNESI DAVID J/DARIA A		1497 MASS AVE		ARLINGTON	MA 02476
62-1-7	1501 MASS AVE	HEALEY JAMES T & JOSEPHINE		1501 MASS AVE		ARLINGTON	MA 02476
62-1-8	1507--1511 MASS AVE	STATHOPOULOS HARALAMBOS N	STATHOPOULOS ZOI	1511 MASS AVE	FLOOR 2	ARLINGTON	MA 02476
62-1-10	1513--1515 MASS AVE	IG INVESTMENTS LLC		226 HARVARD ST		BROOKLINE	MA 02446
62-1-11.A	1517--1519 MASS AVE	IG INVESTMENTS LLC		226 HARVARD ST		BROOKLINE	MA 02446
62-1-12.A	1521--1523 MASS AVE	GINIVISIAN GEORGE P-JANET L	TRS/LEMAC TRUST	55 BOW ST		LEXINGTON	MA 02420
62-1-14	1531 MASS AVE	HUNT PATRICK & KEEGAN MICHAEL	TRS/1531 MASS AVE REALTY TRUST	1531 MASS AVE		ARLINGTON	MA 02476

Results do not include properties within 100 feet from other towns/cities (See Attached Map)

The Board of Assessors certifies the names and addresses of requested parties in interest, all abutters to a single parcel within 100 feet.

Town of Arlington
 Office of the Board of Assessors
 730 Massachusetts Ave
 Arlington, MA 02476
 P: 781.316.3050
 E: assessors@town.arlington.ma.us





- Places by Category
- Police Station
 - Fire Station
 - School
 - Library
 - Public Works
 - Recreation - Facilities
 - Recreation - Fields Cc
 - Recreation - Fields Oc
 - Open Space - Conserv
 - Open Space - Minuter
 - Open Space - Labels
 - Open Space
 - Open Space - Town, State, or Other Town Ow
 - MA Highways
 - Interstate
 - US Highway
 - Numbered Rout
 - Abutting Towns
 - Town Boundary
 - Parcels
 - Buildings
 - Cemetery - Roads
 - Road1
 - Road2
 - Road3
 - Road4
 - Pavement Markings
 - Impervious Surface - I
 - Street
 - Sidewalk
 - Street Island
 - Driveway
 - Parking Lot
 - Bike Path
 - Roads - For Large Sc
 - Roads - For Small Sc
 - Major Road
 - Local Road
 - Master Plan Base Map
 - Water Line
 - Water Body



The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.

216 of



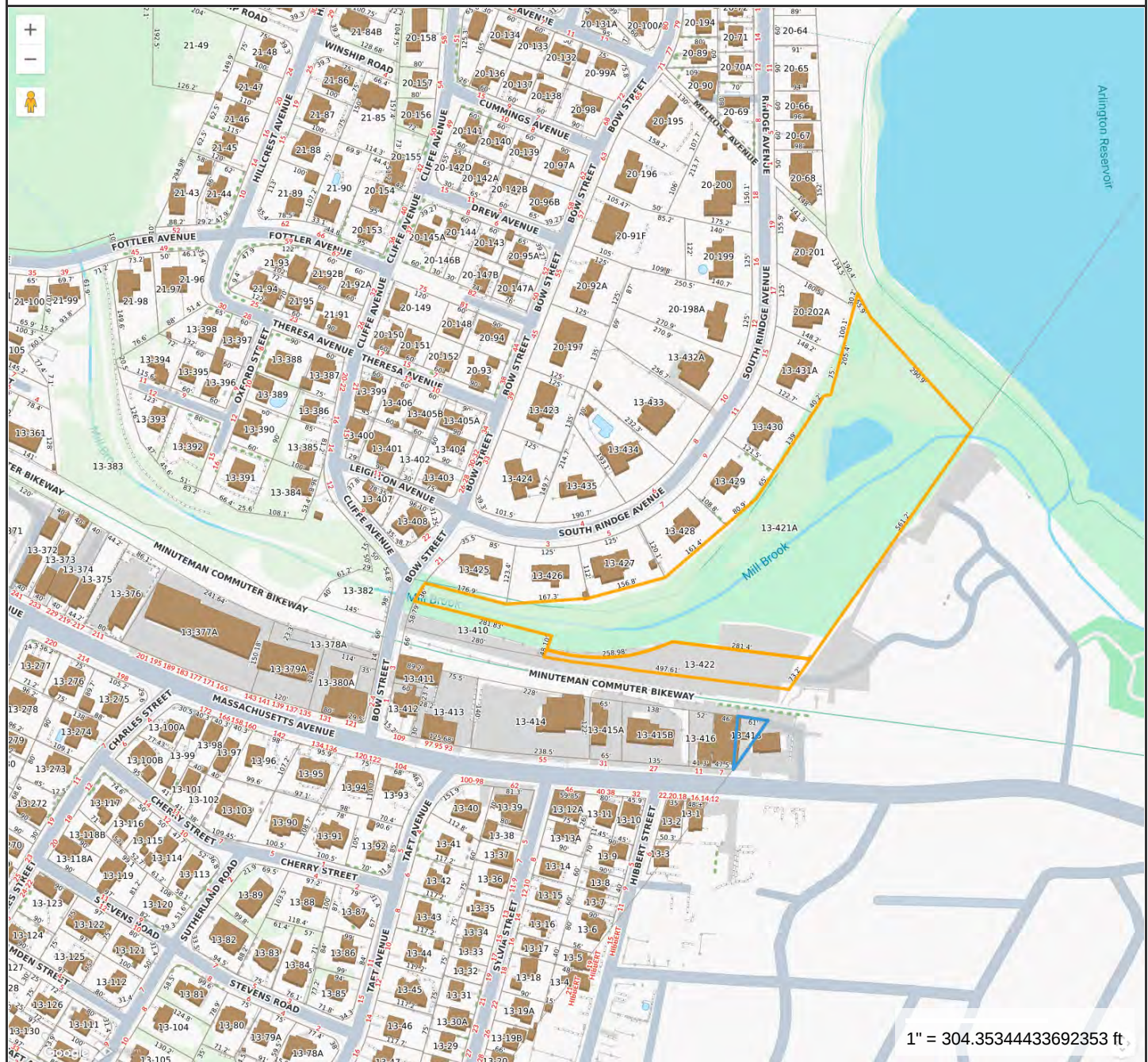
Town of Lexington, MA Abutters Report

**1ft. Abutters of Property 20-37
at MASSACHUSETTS AVE**

Please be aware that the abutters list reflects mailing address for the real estate tax bills as requested by the property owners. Mortgage companies, banks and other financial institutions may be receiving the notification and not the homeowner as required. Please be sure you are complying with notification requirements. Property data updated on a daily basis.

Abutter	Street Address	Account No.	Tax Bill Address
13-418 HUNT PATRICK & KEEGAN MICHAEL TRUSTEES	MASSACHUSETTS AVE	12320	HUNT PATRICK & KEEGAN MICHAEL TRUSTEES 1581 MASSACHUSETTS AVE ARLINGTON, MA 02476
13-421A TOWN OF LEXINGTON	BOW ST	1523	TOWN OF LEXINGTON 1625 MASS VE LEXINGTON, MA 02420
13-422 KELJIKIAN MALCOLM &	BOW ST	1452	KELJIKIAN MALCOLM & 1542 MASS AVE ARLINGTON, MA 02474

Lexington Abutters for 16-38 Drake Rd Arlington

**Property Information**

Property ID 13-418
Location MASSACHUSETTS AVE
Owner HUNT PATRICK & KEEGAN MICHAEL TRUSTEES

**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

Town of Lexington, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated on a daily basis
Data updated on a daily basis

Print map scale is approximate.
Critical layout or measurement
activities should not be done using
this resource.

**APPENDIX E:
Wetland Delineation Report**



NORSE ENVIRONMENTAL SERVICES, INC.

92 Middlesex Road, Unit 4

Tyngsboro, MA 01879

TEL. (978) 649-9932 - FAX (978) 649-7582

Website: www.norseenvironmental.com

March 15, 2022

Mr. Anthony Ma, P.E.
GCG Associates, Inc.
84 Main Street
Wilmington, MA 01887

Re: Arlington Housing Authority - Drake Village
16 Drake Road
Arlington, MA 02476

Dear Mr. Ma,

Norse Environmental Services, Inc. performed a site visit on 1/25/22 to flag the resource areas at the above-mentioned property. The property is part of the Arlington Housing Authority and consists of several apartment buildings, roadways, parking lots and lawn area. The Arlington/Lexington town line is located along the westerly property line.

The resource areas are flagged offsite or on the Jerry Cataldo Reservation in Lexington. The wetlands are flagged in the field with blue ribbon with aluminum tags labeled 1A- 11A. The wetland is a red maple swamp and consist of red maple (*Acer rubrum*) and willows (*Salix* sp.) in the overstory. The understory consists of red osier dogwood (*Cornus stolonifera*), glossy buckthorn (*Rhamnus frangula*), tartarian honeysuckle (*Lonicera tatarica*) and staghorn sumac (*Rhus typhina*). The herbaceous layer consists of sensitive fern (*Onoclea sensibilis*), cinnamon fern (*Osmunda cinnamomea*), jewelweed (*Impatiens capensis*) and common reed (*Phragmites australis*). The invasive vine, oriental bittersweet (*Celastrus orbiculate*) is found throughout the property.

A perennial stream, Mill Brook, traverses through the Jerry Cataldo Reservation. The Bank or Mean Annual High Water is well defined and follows a distinct topographic break in slope. The Bank is flagged in the field with blue ribbon/ground flags with aluminum tags labeled 1B-14B.

The Web Soil Survey maps the site as Udorthents. Udorthents, wet substratum consists of nearly level to hilly areas of poorly drained and very poorly drained soils that have been filled in with various types of soil material, rubble and refuse. Depth of the fill material ranges from 2 to 20 feet or more. Areas of this unit are irregular in shape and range in size from 6 to 150 acres. The areas were typically flood plains, meadows, and swamps that were filled for various urban land

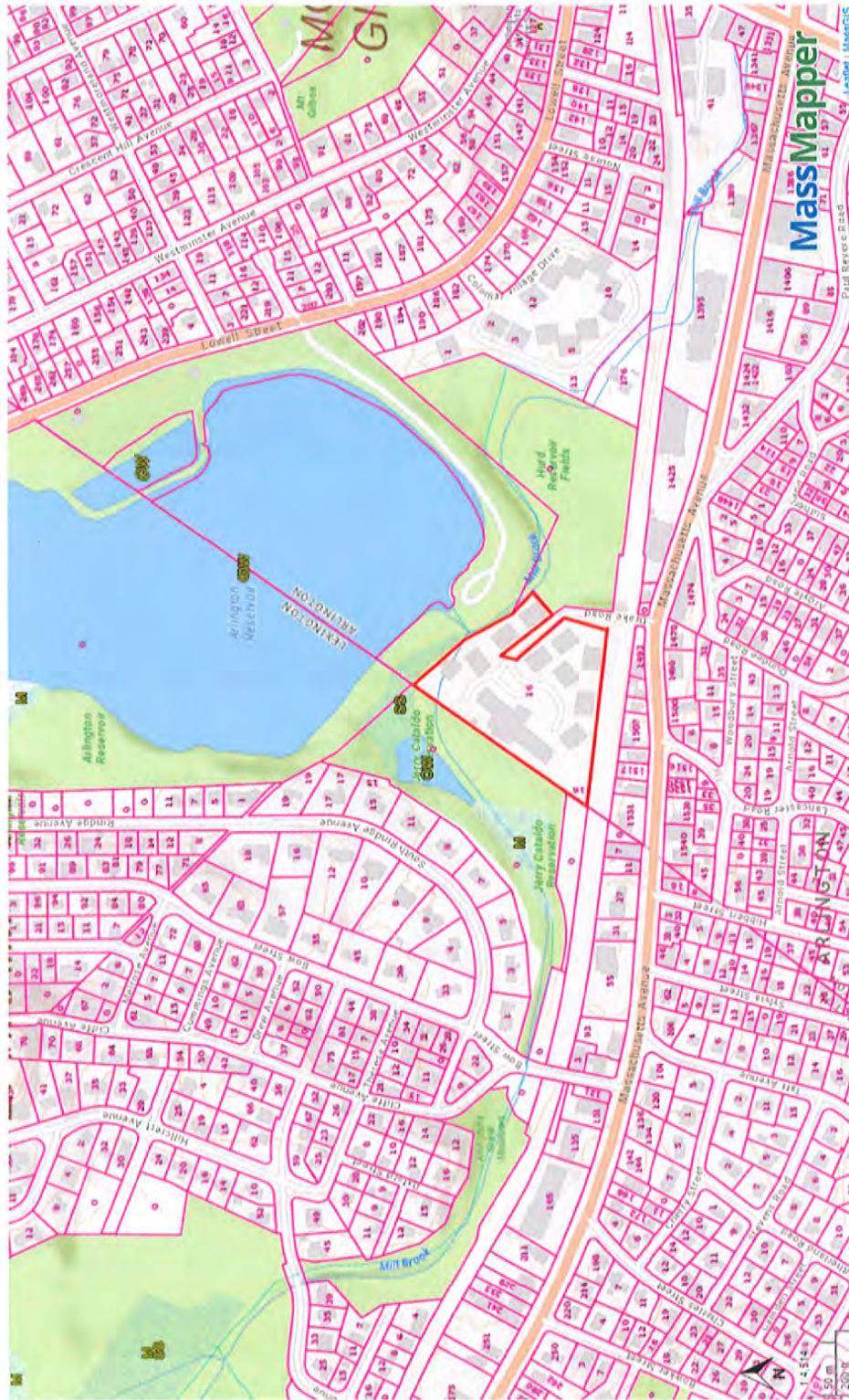
Drake Village Arlington

DEP Wetlands Original Labels

DEP Wetlands Hydrologic Connections

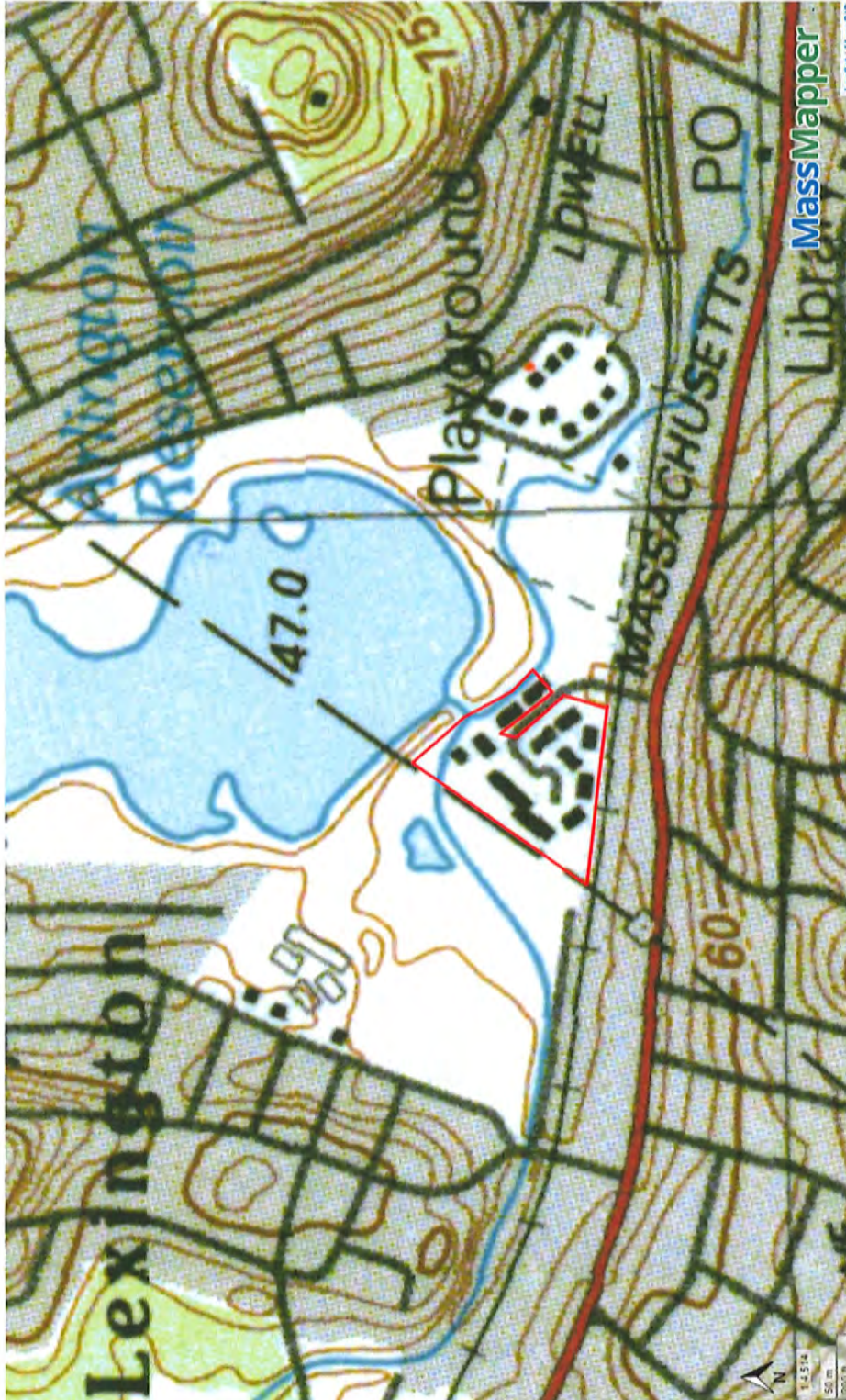
DEP Wetlands Labels

Property Tax Parcels

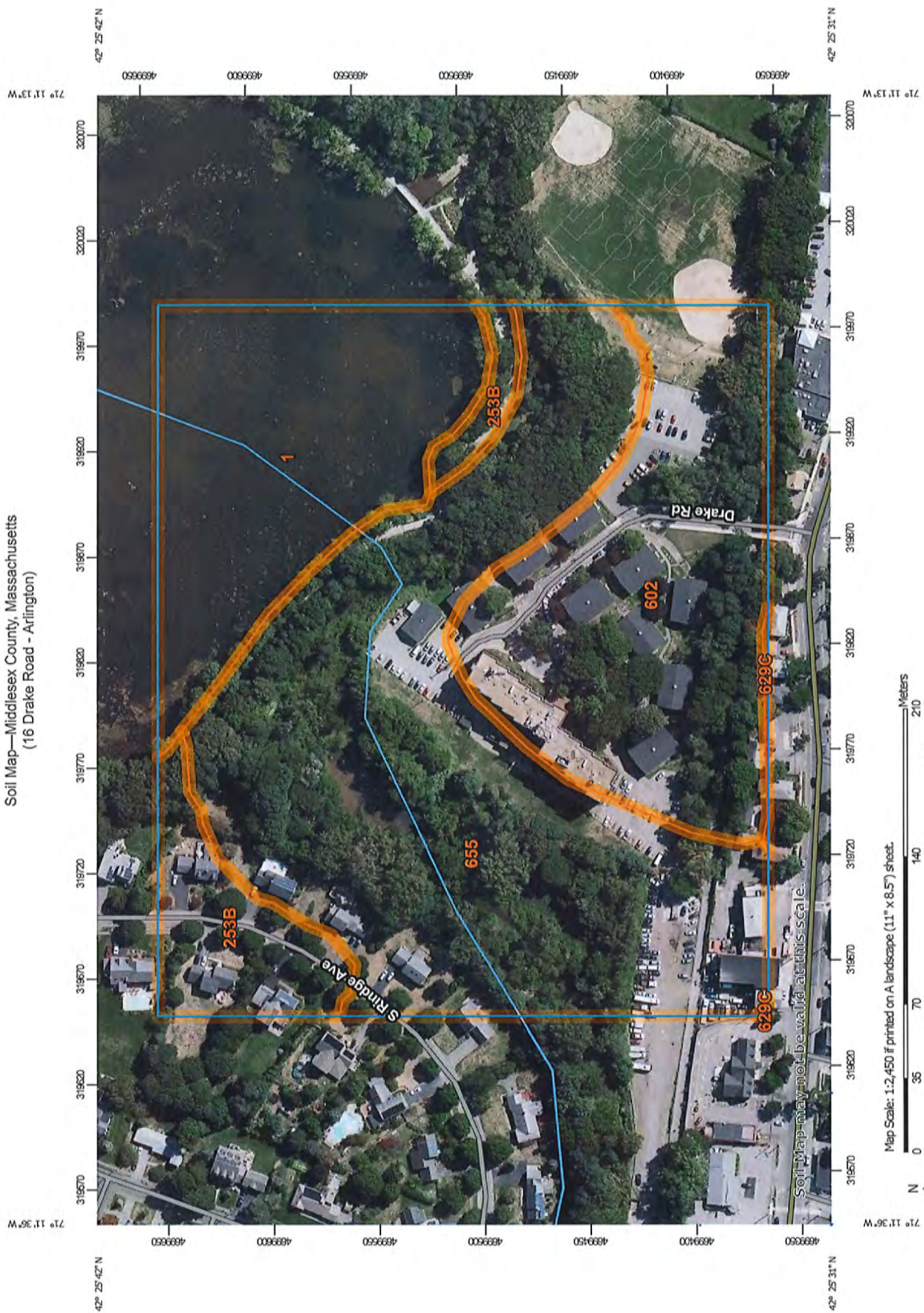


Drake Village Arlington

USGS Topographic Maps
Property Tax Parcels



Soil Map—Middlesex County, Massachusetts
(16 Drake Road - Arlington)

























































Map Scale: 1:2,450 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84



MAP LEGEND

Area of Interest (AOI)		Area of Interest (AOI)		Spoil Area	
	Area of Interest (AOI)				Stony Spot
Soils					Very Stony Spot
	Soil Map Unit Polygons				Wet Spot
	Soil Map Unit Lines				Other
	Soil Map Unit Points				Special Line Features
Special Point Features					
	Blowout				Water Features
	Borrow Pit				Streams and Canals
	Clay Spot				Transportation
	Closed Depression				Rails
	Gravel Pit				Interstate Highways
	Gravelly Spot				US Routes
	Landfill				Major Roads
	Lava Flow				Local Roads
	Marsh or swamp				Background
	Mine or Quarry				Aerial Photography
	Miscellaneous Water				
	Perennial Water				
	Rock Outcrop				
	Saline Spot				
	Sandy Spot				
	Severely Eroded Spot				
	Sinkhole				
	Slide or Slip				
	Sodic Spot				

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:25,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Middlesex County, Massachusetts

Survey Area Data: Version 21, Sep 2, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 13, 2020—Sep 15, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1	Water	4.9	20.2%
253B	Hinckley loamy sand, 3 to 8 percent slopes	1.9	7.9%
602	Urban land	6.1	25.1%
629C	Canton-Charlton-Urban land complex, 3 to 15 percent slopes	0.0	0.2%
655	Udorthents, wet substratum	11.2	46.5%
Totals for Area of Interest		24.2	100.0%

National Flood Hazard Layer FIRMette

71°11'43"W 42°25'49"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee, See Notes, Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS

- NO SCREEN
- Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

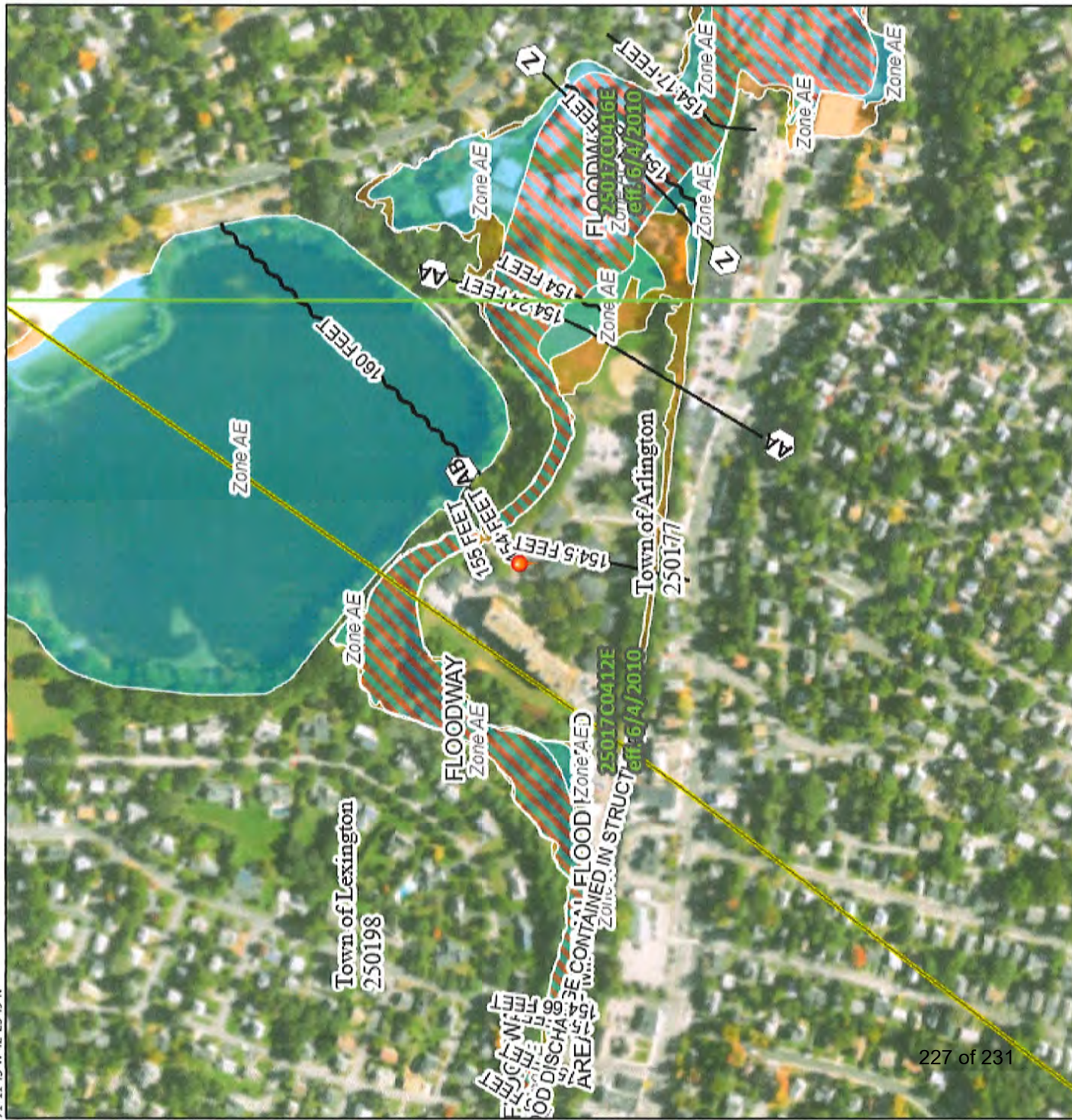
- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/15/2022 at 4:03 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

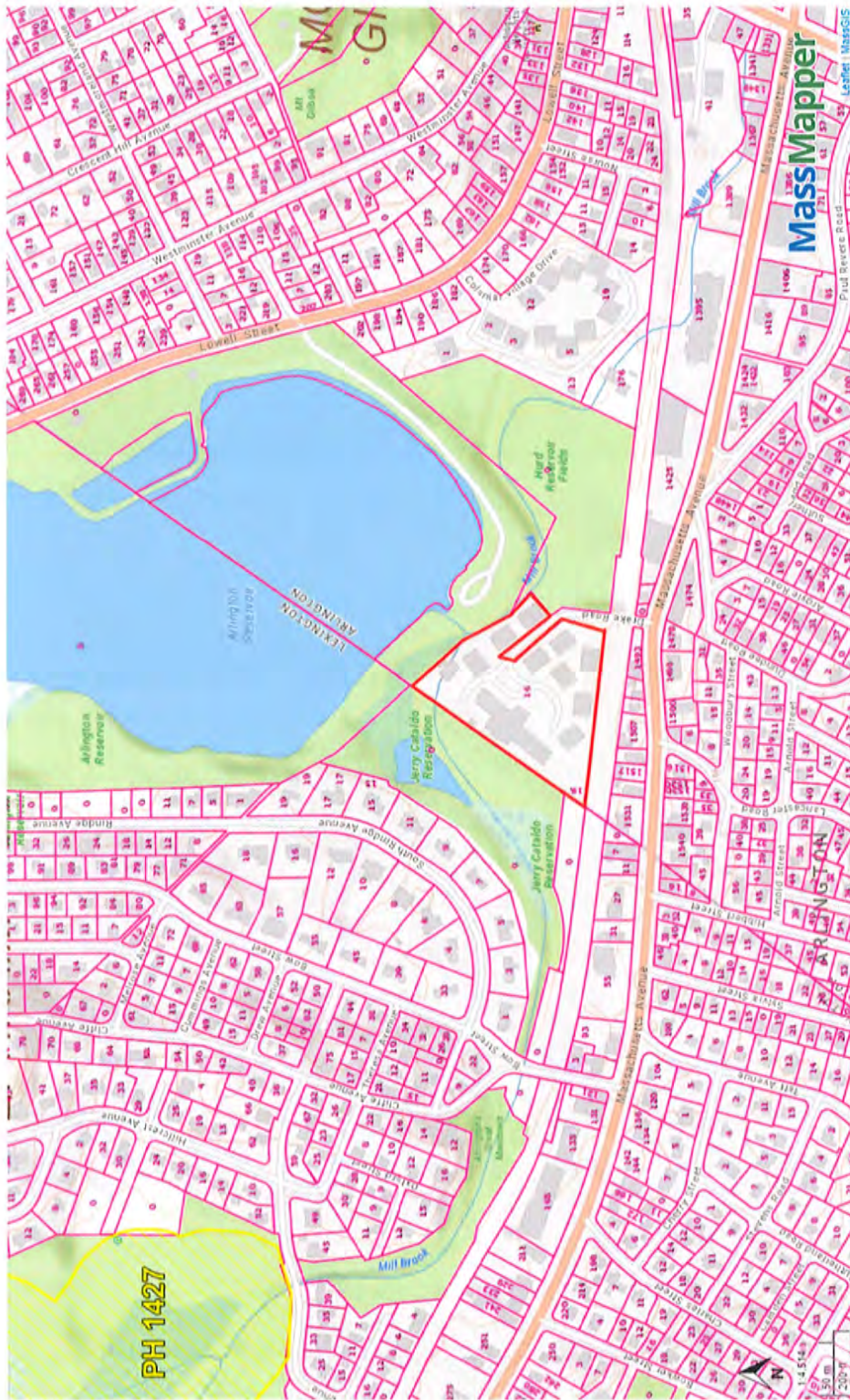
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



71°11'51"W 42°25'22"N

0 250 500 1,000 1,500 2,000 Feet 1:6,000

Drake Village Arlington



use purposes. Included with this soil in mapping are areas generally smaller than 6 acres each of Urban land, Swansea, and Freetown soils. Minor soils comprise about 15 percent of this unit.

Mill Brook has an associated 100-year flood plain or Bordering Land Subject to Flooding. The FIRM Maps determined the 100-year floodplain to be at elevation 155 ft. The site is not located within the NHESP mapping of Estimated and/or Priority Habitat. In addition, there are no certified or potential vernal pools located on or near the property.

Enclosed are the maps of the site. If you have any questions or concerns regarding the above information, please do not hesitate to call.

Sincerely,

Maureen Herald

Maureen Herald, PWS, CWS

III REFERENCES

**Parking Lot Improvement Project
Hauser Building (667-4)
37 Drake Road
Arlington Housing Authority
in
Arlington, Massachusetts
(6 sheets)**

Hauser Building (667-4), Arlington Housing Authority
Parking Lot Improvement Project
37 Drake Road, Arlington, MA
GCG File #24108, EOHLC #010130