

Updated 8/1/2026

FEDERAL PROJECT

BIDDING INSTRUCTIONS

FOR ALL PROJECTS:

1. Use pen and ink to complete all paper Bids.
2. As a minimum, the following must be received prior to the time of Bid opening:

For a Paper Bid:

- a) a copy of the Notice to Contractors, b) the completed Acknowledgement of Bid Amendments form, c) the completed Schedule of Items, d) two copies of the completed and signed Contract Offer, Agreement & Award form, e) a Bid Guaranty, (if required), and f) any other certifications or Bid requirements listed in the Bid Documents as due by Bid opening.

For an Electronic Bid:

NOTE: Not all projects accept Electronic Bids. Please review the Notice to Contractors and see if it specifically states that Electronic Bids will be accepted.

- a) a completed Bid using Expedite® software and submitted via the Bid Express™ web-based service, b) an electronic Bid Guaranty (if required) or a faxed copy of a Bid Bond (with original to be delivered within 72 hours), and c) any other Certifications or Bid requirements listed in the Bid Documents as due by Bid opening.
3. Include prices for all items in the Schedule of Items (excluding non-selected alternates).
 4. Bid Guaranty acceptable forms are:
 - a) a properly completed and signed Bid Bond on the Department's prescribed form (or on a form that does not contain any significant variations from the Department's form as determined by the Department) for 5% of the Bid Amount or
 - b) an Official Bank Check, Cashier's Check, Certified Check, U.S. Postal Money Order or Negotiable Certificate of Deposit in the amount stated in the Notice to Contractors or
 - c) an electronic bid bond submitted with an electronic bid.
 5. If a paper Bid is to be sent, "FedEx First Overnight" delivery is suggested as the package is delivered directly to the DOT Headquarters Building located at 16 Child Street in Augusta. Other means, such as U.S. Postal Service's Express Mail has proven not to be reliable.

IN ADDITION, FOR FEDERAL AID PROJECTS:

6. Complete the DBE Proposed Utilization form, and submit with your bid. If you are submitting your bid electronically, you must FAX the form to (207) 624-3431. This is a curable defect.

If you need further information regarding Bid preparation, call the DOT Contracts Section at (207) 624-3410.

For complete bidding requirements, refer to Section 102 of the Maine Department of Transportation, Standard Specifications, March 2026 Edition.

February 5, 2026
Supersedes April 28, 2017

NOTICE

The Maine Department of Transportation is attempting to improve the way Bid Amendments/Addendums are handled and allow for an electronic downloading of bid packages from our website, while continuing to maintain an optional plan holders list.

Prospective bidders, subcontractors or suppliers who wish to download a copy of the bid package and receive a courtesy notification of project specific bid amendments must fill out the on-line plan holder registration form and provide an email address to the MDOT Contracts mailbox at: MDOT.contracts@maine.gov. Each bid package will require a separate request.

Additionally, interested parties will be responsible for reviewing and retrieving the Bid Amendments from our web site, and acknowledging receipt and incorporating those Bid Amendments in their bids using the Acknowledgement of Bid Amendment Form.

The downloading of bid packages from the MDOT website is not the same as providing an electronic bid to the Department. Electronic bids must be submitted via <http://www.BIDX.com>. For information on electronic bidding contact Guy Berthiaume at guy.berthiaume@maine.gov.

NOTICE

For security and other reasons, all Bid Packages which are mailed, shall be provided in double (one envelope inside the other) envelopes. The *Inner Envelope* shall have the following information provided on it:

Bid Enclosed - Do Not Open

WIN:

Town:

Date of Bid Opening:

Name of Contractor with mailing address and telephone number:

In Addition to the usual address information, the *Outer Envelope* should have written or typed on it:

Double Envelope: Bid Enclosed

WIN:

Town:

Date of Bid Opening:

Name of Contractor:

This should not be much of a change for those of you who use Federal Express or similar services.

Hand-carried Bids may be in one envelope as before, and should be marked with the following information:

Bid Enclosed: Do Not Open

WIN:

Town:

Name of Contractor:

August 1, 2026

STATE OF MAINE DEPARTMENT OF TRANSPORTATION
Bid Guaranty-Bid Bond Form

KNOW ALL MEN BY THESE PRESENTS THAT _____

_____, of the City/Town of _____ and State of _____

as Principal, and _____ as Surety, a

Corporation duly organized under the laws of the State of _____ and having a usual place of

Business in _____ and hereby held and firmly bound unto the Treasurer of

the State of Maine in the sum of _____, for payment which Principal and Surety bind

themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

The condition of this obligation is that the Principal has submitted to the Maine Department of

Transportation, hereafter Department, a certain bid, attached hereto and incorporated as a

part herein, to enter into a written contract for the construction of _____

_____ and if the Department shall accept said bid

and the Principal shall execute and deliver a contract in the form attached hereto (properly

completed in accordance with said bid) and shall furnish bonds for this faithful performance of

said contract, and for the payment of all persons performing labor or furnishing material in

connection therewith, and shall in all other respects perform the agreement created by the

acceptance of said bid, then this obligation shall be null and void; otherwise it shall remain in full

force, and effect.

Signed and sealed this _____ day of _____ 20____

WITNESS:

WITNESS

PRINCIPAL:

By _____

By: _____

By: _____

SURETY:

By _____

By: _____

Name of Local Agency: _____

NOTICE

Bidders:

Please use the attached “Request for Information” form when submitting questions concerning specific Contracts that have been advertised for Bid, include additional numbered pages as required. RFI’s may be faxed to 207-624-3431, submitted electronically through the Departments web page of advertised projects by selecting the RFI tab on the project details page or via e-mail to RFI-Contracts.MDOT@maine.gov.

These are the only allowable mechanisms for answering Project specific questions. Maine DOT will not be bound to any answers to Project specific questions received during the Bidding phase through other processes.

When submitting RFIs by Email please follow the same guidelines as stated on the “Request for Information” form and include the word “RFI” along with the Project name and Identification number in the subject line.

RFI No: _____

Date _____ **Time** _____

WIN(S): _____ **Town(s):** _____ **Bid Date:** _____

Question(s):_____

Company Name:_____ **Phone:()**_____

Email: _____ **Fax:** (____) _____

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NOTICE

BIDDER'S LIST FORM

All Bidders must submit the Bidder's List Form with their bid.

The Bidder's List Form contains information required by USDOT.

The Bidder's List Form must be completed by each Prime Contractor.

A copy of the new Bidder's List Form and instructions for completing it are attached.

The DBE Directory can be found on the MaineDOT Website at: <https://www.maine.gov/mdot/civilrights/dbe/>

Questions about the Directory or this form should be sent to the Civil Rights Office at mary.bryant@maine.gov or by calling 207-624-3056.

INSTRUCTIONS FOR PREPARING THE MAINEDOT BIDDER'S LIST FORM

The Contractor shall extend equal opportunity to MaineDOT certified DBE firms (as listed in MaineDOT's DBE Directory of Certified Businesses) in the selection and utilization of subcontractors and suppliers.

Each prime contractor submitting a bid on a federally funded project must complete each section of the Bidder's List Form in its entirety for itself and each subcontractor on that project.

SPECIFIC INSTRUCTIONS FOR COMPLETING THE FORM:

Section A:

1. Insert Prime Contractor Name
2. Insert WIN for the Federal Project bidding on
3. Insert Bid Date
4. Insert Project Location
5. Insert Email address of Contact Person

Section B:

- A. Enter each Contractor's and Sub-Contractor's name and address (including zip code) – Prime Contractor's name should be listed in first box of this section; then each additional line would be proposed subcontractors – DBE and NonDBE
- B. Enter each Contractor's and Sub-Contractor's annual gross receipts bracket (see the legend on the form)
- C. Enter DBE status (DBE or non-DBE) for each contractor/sub-contractor
- D. Enter each Contractor's and Sub-Contractor's NAICS (North Amer. Industry Classification System) code (may be more than one) and Scope of Work
- E. For each Contractor and Sub-Contractor enter the Race and Gender of the firm's majority owner
- F. Enter the Age of each firm for every Contractor and Sub-Contractor
- G. Enter the Proposed amount of payment (Bid amount) for each Contractor/Sub-Contractor.

Maine Department of Transportation
BIDDER'S LIST FORM

SECTION A. Bidder/Prime Contractor Information - This section must be completed by the Bidder/Prime Contractor

Prime Contractor Name: _____

Prime Contractor Email Address: _____ Bid Date: _____

Federal Project WIN: _____ Project Location: _____

SECTION B. COMMITMENT DETAILS – Prime contractor and all proposed subcontractor information is required in this section.

A. Firm name & address, including zip code. Prime must be listed first.	B. Annual gross receipt bracket Select 1 to 7*	C. Status: DBE or Non-DBE	D. NAICS Code(s) and scope of work	E. Age of each firm	F. Proposed amount

*1) Less than \$1M; 2) \$1 – \$3M; 3) \$3 - \$6M; 4) \$6 - \$10M; 5) \$10 - \$20M; 6) \$20 - \$50M; 7) Greater than \$50M – More than 5 subs use additional form.

For a complete list of certified DBE firms, please visit: <https://www.maine.gov/dot/doing-business/civil-rights/dbe>
This information is required pursuant to 49 CFR §26.11, and is used to track data in all federally funded MaineDOT contracts.

MaineDOT Use Only: ☐ FHWA ☐ FTA ☐ FAA

DBE GOAL NOTICE
Maine Department of Transportation
Disadvantaged Business Enterprise Program

Notice is hereby given that in accordance with US DOT regulation 49 CFR Part 26, the Maine Department of Transportation (MaineDOT) has established a Disadvantaged Business Enterprise Program (DBE) for disadvantaged business participation in the federal-aid highway and bridge construction programs; MaineDOT contracts covered by the program include consulting, construction, supplies, manufacturing, and service contracts.

Beginning September 1, 2024, MaineDOT has established an annual DBE participation goal of **1.43%** to be achieved through race/gender neutral means. This goal has been approved by the Federal Highway Administration through August 31, 2027. MaineDOT must meet this goal each federal fiscal year. If the goal is not met, MaineDOT must provide a justification for not meeting the goal and provide a plan to ensure the goal is met, which may include contract goals on certain projects that contractors will be required to meet.

MaineDOT asks all contractors, consultants and subcontractors to seek certified DBE firms for projects and to work to meet the determined 1.43% goal without the need to impose contract goals. DBE firms are listed on the MaineDOT website at:

<http://www.maine.gov/mdot/disadvantaged-business-enterprises/pdf/directory.pdf>

Interested parties may view MaineDOT's DBE goal setting methodology, also posted on this website. If you have questions regarding this goal or the DBE program you may contact Sherry Tompkins at the Maine Department of Transportation, Civil Rights Office by telephone at (207) 624-3066 or by e-mail at: sherry.tompkins@maine.gov

Maine Department of Transportation Civil Rights Office

Directory of Certified Disadvantaged Business Enterprises

Listing can be found at:

<https://www.maine.gov/mdot/civilrights/dbe/>

For additional information and guidance contact:

Civil Rights Office at (207) 624-3056

It is the responsibility of the Contractor to access the DBE Directory at this site in order to have the most current listing.

Vendor Registration

Prospective Bidders must register as a vendor with the Department of Administrative & Financial Services if the vendor is awarded a contract. Vendors will not be able to receive payment without first being registered. Vendors/Contractors will find information and register through the following link –

<http://www.maine.gov/purchases/venbid/index.shtml>

STATE OF MAINE DEPARTMENT OF TRANSPORTATION NOTICE TO CONTRACTORS

Sealed Bids addressed to the Maine Department of Transportation, Augusta, Maine 04333 and endorsed on the wrapper "Bids for **Pavement Milling & Hot Mix Asphalt Overlay with New Curb & Sidewalk** in the City of **Biddeford**" will be received from contractors at the Reception Desk, MaineDOT Building, Capitol Street, Augusta, Maine, until 11:00 o'clock A.M. (prevailing time) on **October 28, 2026**, and at that time and place, publicly opened and read. Bids will be accepted from all bidders. The lowest responsive bidder must have completed, or successfully complete, a **Highway Construction, Paving**, or project specific prequalification to be considered for the award of this contract. **We now accept electronic bids for bid packages posted on the bidx.com website. Electronic bids do not have to be accompanied by paper bids. Please note: The Department will accept a facsimile of the bid bond; however, the original bid bond must then be received at the MDOT Contract Section within 72 hours of the bid opening.** Until further notice, dual bids (one paper, one electronic) will be accepted, with the paper copy taking precedence.

Description: Maine Federal Aid Project No. 2565300 WIN 025653.00

Location: In York County, project is located in the city of Biddeford on US Route 1 beginning just north of the Upper Falls/One Diamond intersection and extending south 0.30 of a mile.

Outline of Work: Pavement Milling & Hot Mix Asphalt Overlay with New Curb & Sidewalk and other incidental work.

The basis of award will be Section 1 Only. Sections 1, 2 and 3 must be bid.

For general information regarding Bidding and Contracting procedures, contact George Macdougall at (207) 624-3410. Our webpage at <http://www.maine.gov/mdot/contractors/> contains a copy of the Schedule of Items, Plan Holders List, written portions of bid amendments, drawings, bid results and an electronic form for RFI submittal. For Project-specific information fax all questions to Ernie Martin at (207) 624-3431, use electronic RFI form or email questions to RFI-Contracts.MDOT@maine.gov, project name and identification number should be in the subject line. Questions received after 12:00 noon of Monday (or if that Monday is a state holiday, Friday) prior to bid date will not be answered. Bidders shall not contact any other Departmental staff for clarification of Contract provisions, and the Department will not be responsible for any interpretations so obtained. TTY users call Maine Relay 711.

Bid Documents, specifications and bid forms can be viewed and obtained digitally at no cost at <http://www.maine.gov/mdot/contractors/>. They may be purchased from the Department between the hours of 7:00 a.m. to 3:30 p.m. by cash, credit card (Visa/Mastercard) or check payable to Treasurer, State of Maine sent to Maine Department of Transportation, Attn.: Mailroom, 24 Child Street, Augusta, Maine 04333-0016. They also may be purchased by telephone at (207) 624-3536 between the hours of 7:00 a.m. to 3:30 p.m. Full size plans **\$71.00 (\$76.50 by mail)**. Half size plans **\$35.50 (\$38.75 by mail)**, Bid Book \$10 (\$13 by mail), Single Sheets \$2, payment in advance, all non-refundable.

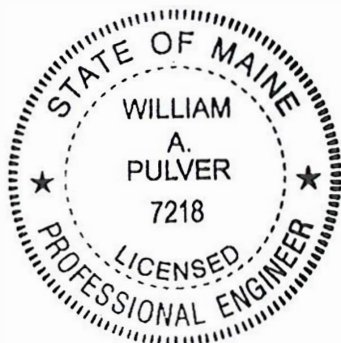
Each Bid must be made upon blank forms provided by the Department and must be accompanied by a bid bond at 5% of the bid amount or an official bank check, cashier's check, certified check, certificate of deposit, or United States postal money order in the amount of 5% of the bid amount, payable to Treasurer, State of Maine as a Bid guarantee. A Contract Performance Surety Bond and a Contract Payment Surety Bond, each in the amount of 100 percent of the Contract price, will be required of the successful Bidder.

This Contract is subject to all applicable Federal Laws. This contract is subject to compliance with the Disadvantaged Business Enterprise program requirements as set forth by the Maine Department of Transportation.

All work shall be governed by *State of Maine, Department of Transportation, Standard Specifications, March 2026 Edition*, price \$10 [\$15 by mail], and *Standard Details, March 2026 Edition*, price \$10 [\$15 by mail]. They also may be purchased by telephone at (207) 624-3536 between the hours of 7:00 a.m. to 3:30 p.m. *Standard Detail* updates can be found at <https://www.maine.gov/dot/doing-business/bid-opportunities/standards>

The right is hereby reserved to the MaineDOT to reject any or all bids.

Augusta, Maine
October 7, 2026



WILLIAM A. PULVER P. E.
CHIEF ENGINEER

NOTICE

All bids for Federal Projects **shall** be accompanied by the DBE Proposed Utilization form. If you are submitting an electronic bid, the DBE Utilization Form may be faxed to 207-624-3431. Failure to submit the form with the bid will be considered a curable defect.

SPECIAL PROVISION 102.7.3
ACKNOWLEDGMENT OF BID AMENDMENTS

With this form, the Bidder acknowledges its responsibility to check for all Amendments to the Bid Package. For each Project under Advertisement, Amendments are located at <http://www.maine.gov/mdot/contractors/> . It is the responsibility of the Bidder to determine if there are Amendments to the Project, to download them, to incorporate them into their Bid Package, and to reference the Amendment number and the date on the form below. The Maine DOT will not post Bid Amendments any later than noon the day before Bid opening without individually notifying all the planholders.

Amendment Number	Date

The Contractor, for itself, its successors and assigns, hereby acknowledges that it has received all of the above referenced Amendments to the Bid Package.

CONTRACTOR

Date

Signature of authorized representative

(Name and Title Printed)

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Maine Department of Transportation

Proposal Schedule of Items

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Proposal ID: 025653.00

Project(s): 025653.00

SECTION: 1 BIDDEFORD HIGHWAY

Alt Set ID:

Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0010	202.15 REMOVING EXISTING MANHOLE OR CATCH BASIN	2.000 EA	_____	 _____	_____	 _____
0020	202.202 REMOVING PAVEMENT SURFACE	8,740.000 SY	_____	 _____	_____	 _____
0030	203.20 COMMON EXCAVATION	1,050.000 CY	_____	 _____	_____	 _____
0040	203.2312 HEALTH AND SAFETY PLAN	LUMP SUM	LUMP SUM		_____	 _____
0050	203.2333 DISPOSAL TREATMENT OF SPECIAL EXCAVATION	75.000 T	_____	 _____	_____	 _____
0060	206.061 STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES, BELOW GRADE	50.000 CY	_____	 _____	_____	 _____
0070	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	1,340.000 CY	_____	 _____	_____	 _____
0080	403.2081 12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	750.000 T	_____	 _____	_____	 _____
0090	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	135.000 T	_____	 _____	_____	 _____
0100	403.2111 9.5 MM POLYMER MODIFIED HMA (SHIM)	375.000 T	_____	 _____	_____	 _____
0110	403.213 HOT MIX ASPHALT 12.5 MM BASE	225.000 T	_____	 _____	_____	 _____

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Proposal ID: 025653.00

Project(s): 025653.00

SECTION: 1 BIDDEFORD HIGHWAY

Alt Set ID: Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0120	409.15 BITUMINOUS TACK COAT - APPLIED	740.000 G				
0130	411.10 UNTREATED AGGREGATE SURFACE COURSE (TRUCK MEASURE)	20.000 CY				
0140	424.22 ASPHALT RUBBER CRACK SEALER TYPE 2, APPLIED (WITH HOT POUR MASTIC)	1,250.000 LB				
0150	424.38 CRACK REPAIR - HOT POUR MASTIC	650.000 LB				
0160	502.3412 STRUCTURAL CONCRETE, RAISED ISLAND	20.000 CY				
0170	507.0831 STEEL BRIDGE RAILING, 4 BAR	LUMP SUM				
0180	603.159 12 INCH CULVERT PIPE OPTION III	100.000 LF				
0190	604.092 CATCH BASIN TYPE B1-C	5.000 EA				
0200	604.16 ALTERING CATCH BASIN TO MANHOLES	4.000 EA				
0210	604.168 REMOVE AND RESET CATCH BASIN	2.000 EA				
0220	604.181 ADJUST AND ALTER CATCH BASIN TO LINE AND GRADE	25.000 EA				
0230	604.262 CATCH BASIN TYPE B5-C	2.000 EA				

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Proposal Schedule of Items

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Proposal ID: 025653.00

Project(s): 025653.00

SECTION: 1 BIDDEFORD HIGHWAY

Alt Set ID:

Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0240	605.11 12 INCH UNDERDRAIN TYPE C	70.000 LF	_____	_____	_____	_____
0250	605.15 24 INCH UNDERDRAIN TYPE C	50.000 LF	_____	_____	_____	_____
0260	606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	1.000 EA	_____	_____	_____	_____
0270	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	3.000 EA	_____	_____	_____	_____
0280	606.71 GUARDRAIL THRIE BEAM - 15 FOOT RADIUS AND LESS	25.000 LF	_____	_____	_____	_____
0290	608.08 REINFORCED CONCRETE SIDEWALK	2,530.000 SY	_____	_____	_____	_____
0300	608.26 CURB RAMP DETECTABLE WARNING FIELD	620.000 SF	_____	_____	_____	_____
0310	609.11 VERTICAL CURB TYPE 1	2,125.000 LF	_____	_____	_____	_____
0320	609.12 VERTICAL CURB TYPE 1 - CIRCULAR	40.000 LF	_____	_____	_____	_____
0330	609.221 TERMINAL CURB TYPE 1	865.000 LF	_____	_____	_____	_____
0340	609.222 TERMINAL CURB TYPE 1 - CIRCULAR	275.000 LF	_____	_____	_____	_____
0350	609.31 CURB TYPE 3	160.000 LF	_____	_____	_____	_____

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Proposal ID: 025653.00

Project(s): 025653.00

SECTION: 1

BIDDEFORD HIGHWAY

Alt Set ID:

Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0360	609.35 CURB TYPE 5 - CIRCULAR	115.000 LF	_____	_____	_____	_____
0370	609.38 RESET CURB TYPE 1	100.000 LF	_____	_____	_____	_____
0380	615.07 LOAM	25.000 CY	_____	_____	_____	_____
0390	618.13 SEEDING METHOD NUMBER 1	2.000 UN	_____	_____	_____	_____
0400	619.12 MULCH	2.000 UN	_____	_____	_____	_____
0410	626.11 PRECAST CONCRETE JUNCTION BOX	14.000 EA	_____	_____	_____	_____
0420	626.21 METALLIC CONDUIT	60.000 LF	_____	_____	_____	_____
0430	626.22 NON-METALLIC CONDUIT	740.000 LF	_____	_____	_____	_____
0440	626.36 REMOVE OR MODIFY CONCRETE FOUNDATION	6.000 EA	_____	_____	_____	_____
0450	626.38 GROUND MOUNTED CABINET FOUNDATION	2.000 EA	_____	_____	_____	_____
0460	626.421 24 INCH DIAMETER FOUNDATION	84.000 LF	_____	_____	_____	_____
0470	626.44 36 INCH DIAMETER FOUNDATION	60.000 LF	_____	_____	_____	_____

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Proposal ID: 025653.00

Project(s): 025653.00

SECTION: 1 BIDDEFORD HIGHWAY

Alt Set ID:

Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0480	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	7,320.000 LF	_____	_____	_____	_____
0490	627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	4,400.000 SF	_____	_____	_____	_____
0500	627.77 REMOVING PAVEMENT MARKINGS	1,000.000 SF	_____	_____	_____	_____
0510	627.78 TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	7,320.000 LF	_____	_____	_____	_____
0520	629.05 HAND LABOR, STRAIGHT TIME	50.000 HR	_____	_____	_____	_____
0530	631.10 AIR COMPRESSOR (INCLUDING OPERATOR)	30.000 HR	_____	_____	_____	_____
0540	631.11 AIR TOOL (INCLUDING OPERATOR)	30.000 HR	_____	_____	_____	_____
0550	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	50.000 HR	_____	_____	_____	_____
0560	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	100.000 HR	_____	_____	_____	_____
0570	631.221 SMALL FRONT-END LOADER (INCLUDING OPERATOR)	30.000 HR	_____	_____	_____	_____
0580	631.32 CULVERT CLEANER (INCLUDING OPERATOR)	30.000 HR	_____	_____	_____	_____

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Proposal ID: 025653.00

Project(s): 025653.00

SECTION: 1 BIDDEFORD HIGHWAY

Alt Set ID: Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0590	634.160 HIGHWAY LIGHTING	LUMP SUM		LUMP SUM		
0600	639.18 FIELD OFFICE TYPE A	1.000 EA				
0610	643.1095 TRAFFIC SIGNAL - REMOVE (ELM STREET/SPRUCE STREET)	LUMP SUM		LUMP SUM		
0620	643.621 RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (ELM ST. STA 19+45)	1.000 EA				
0630	643.632 RECTANGULAR RAPID FLASHING BEACON - REMOVE (ELM ST. STA. 10+30 RT)	LUMP SUM		LUMP SUM		
0640	643.632 RECTANGULAR RAPID FLASHING BEACON - REMOVE (ELM ST. STA. 10+45 LT)	LUMP SUM		LUMP SUM		
0650	643.80 TRAFFIC SIGNALS AT ELM/LINCOLN	LUMP SUM		LUMP SUM		
0660	643.80 TRAFFIC SIGNALS AT ELM/UPPER FALLS/DIAMOND	LUMP SUM		LUMP SUM		
0670	643.83 VIDEO DETECTION SYSTEM (AT ELM/LINCOLN)	LUMP SUM		LUMP SUM		
0680	643.83 VIDEO DETECTION SYSTEM (AT ELM/UPPER FALLS/DIAMOND)	LUMP SUM		LUMP SUM		

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Proposal ID: 025653.00

Project(s): 025653.00

SECTION: 1 BIDDEFORD HIGHWAY

Alt Set ID: Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0690	643.91 MAST ARM POLE ELM/LINCOLN 45' AND 50' ARM	1.000 EA	_____	_____	_____	_____
0700	643.91 MAST ARM POLE ELM/UPPER FALLS/DIAMOND 25' AND 45' ARM	1.000 EA	_____	_____	_____	_____
0710	643.91 MAST ARM POLE ELM/UPPER FALLS/DIAMOND 35' ARM	2.000 EA	_____	_____	_____	_____
0720	643.91 MAST ARM POLE ELM/UPPER FALLS/DIAMOND 45' AND 50' ARM	1.000 EA	_____	_____	_____	_____
0730	643.92 PEDESTAL POLE	10.000 EA	_____	_____	_____	_____
0740	645.106 DEMOUNT REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	30.000 EA	_____	_____	_____	_____
0750	645.116 REINSTALL REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	30.000 EA	_____	_____	_____	_____
0760	645.292 REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNS TYPE II	100.000 SF	_____	_____	_____	_____
0770	652.33 DRUM	30.000 EA	_____	_____	_____	_____
0780	652.34 CONE	200.000 EA	_____	_____	_____	_____

9/30/2026

Maine Department of Transportation

Proposal Schedule of Items

Page 8 of 9

Proposal ID: 025653.00

Project(s): 025653.00

SECTION: 1 BIDDEFORD HIGHWAY

Alt Set ID:

Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0790	652.35 CONSTRUCTION SIGNS	600.000 SF	_____	_____	_____	_____
0800	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	100.000 CD	_____	_____	_____	_____
0810	652.38 FLAGGER	3,700.000 HR	_____	_____	_____	_____
0820	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	2.000 EA	_____	_____	_____	_____
0830	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP SUM	LUMP SUM		_____	_____
0840	658.20 ACRYLIC LATEX COLOR FINISH, GREEN	30.000 SY	_____	_____	_____	_____
0850	659.10 MOBILIZATION	LUMP SUM	LUMP SUM		_____	_____
0860	841.47 STEEL BOLLARD	6.000 EA	_____	_____	_____	_____
Section: 1			Total:		_____	_____

9/30/2026

Maine Department of Transportation

Proposal Schedule of Items

Page 9 of 9

Proposal ID: 025653.00

Project(s): 025653.00

SECTION: 2 SEWER

Alt Set ID:

Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0870	823.332 GATE VALVE BOX, ADJUST TO GRADE	18.000 EA	_____	_____	_____	_____
Section: 2			Total:		_____	_____

SECTION: 3 WATER

Alt Set ID:

Alt Mbr ID:

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0880	812.162 ADJUSTING SEWER MANHOLE TO GRADE	18.000 EA	_____	_____	_____	_____
Section: 3			Total:		_____	_____
			Total Bid:		_____	_____

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

_____ a corporation or other legal entity organized under the laws of the State of _____, with its principal place of business located at _____

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, **WIN 025653.00**, for **Pavement Milling & Hot Mix Asphalt Overlay with New Curb & Sidewalk** in the city of **Biddeford, County of York, Maine**. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work; performing construction quality control including inspection, testing and documentation; providing all required documentation at the conclusion of the project; warranting its work; and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract. Payment shall be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **August 13, 2027**. Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the *State of Maine Department of Transportation Standard Specifications, March 2026 Edition* and related Special Provisions.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is

Section 1 \$ _____

Section 2 \$ _____

Section 3 \$ _____

Performance Bond and Payment Bond each being 100% of the amount of this Contract.

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, *Standard Specifications, March 2026 Edition, Standard Details March 2026 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the *Standard Specifications March 2026 Edition* (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.
2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, *Standard Specifications March 2026 Edition*, *Standard Details March 2026 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of: **WIN 025653.00 - Pavement Milling & Hot Mix Asphalt Overlay with New Curb & Sidewalk – in the city of Biddeford, State of Maine**, on which bids will be received until the time specified in the “Notice to Contractors” do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached “Schedule of Items.”

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached “Schedule of Items” in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached “Schedule of Items,” which may be ordered by the Resident, and to accept as full compensation the amount determined upon a “Force Account” basis as provided in the *Standard Specifications, March 2026 Edition*, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier’s check, certificate of deposit or U. S. Postal Money Order in the amount given in the “Notice to Contractors”, payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work as stated in Section 107.2 of the *Standard Specifications March 2026 Edition* and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor’s Disadvantaged Business Enterprise Utilization Plan with their bid.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

Date

(Signature of Legally Authorized Representative
of the Contractor)

Witness

(Name and Title Printed)

G. Award.

Your offer is hereby accepted for (see checked boxes):

Section 1 ☐

Section 2 ☐

Section 3 ☐

Contract Amount: _____

This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

Date

By: Dale F. Doughty, Commissioner

Witness

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

_____ a corporation or other legal entity organized under the laws of the State of _____, with its principal place of business located at _____

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, **WIN 025653.00**, for **Pavement Milling & Hot Mix Asphalt Overlay with New Curb & Sidewalk** in the city of **Biddeford, County of York, Maine**. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work; performing construction quality control including inspection, testing and documentation; providing all required documentation at the conclusion of the project; warranting its work; and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract. Payment shall be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **August 13, 2027**. Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the *State of Maine Department of Transportation Standard Specifications, March 2026 Edition* and related Special Provisions.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is

Section 1 \$ _____

Section 2 \$ _____

Section 3 \$ _____

Performance Bond and Payment Bond each being 100% of the amount of this Contract.

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, *Standard Specifications, March 2026 Edition, Standard Details March 2026 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the *Standard Specifications March 2026 Edition* (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.
2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, *Standard Specifications March 2026 Edition*, *Standard Details March 2026 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of: **WIN 025653.00 - Pavement Milling & Hot Mix Asphalt Overlay with New Curb & Sidewalk – in the city of Biddeford, State of Maine**, on which bids will be received until the time specified in the “Notice to Contractors” do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached “Schedule of Items.”

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached “Schedule of Items” in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached “Schedule of Items,” which may be ordered by the Resident, and to accept as full compensation the amount determined upon a “Force Account” basis as provided in the *Standard Specifications, March 2026 Edition*, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier’s check, certificate of deposit or U. S. Postal Money Order in the amount given in the “Notice to Contractors”, payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work as stated in Section 107.2 of the *Standard Specifications March 2026 Edition* and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor’s Disadvantaged Business Enterprise Utilization Plan with their bid.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

_____	_____
Date	(Signature of Legally Authorized Representative of the Contractor)
_____	_____
Witness	(Name and Title Printed)

G. Award.

Your offer is hereby accepted for (see checked boxes):

Section 1 ☐
Section 2 ☐
Section 3 ☐

Contract Amount: _____

This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

_____	_____
Date	By: Dale F. Doughty, Commissioner

Witness	

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

(Name of the firm bidding the job)

a corporation or other legal entity organized under the laws of the State of Maine, with its principal place of business located at **(address of the firm bidding the job)**

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, WIN No.0112345.00, for the **Hot Mix Asphalt Overlay** in the town/city of **South Nowhere**, County of **Washington**, Maine. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **November 15, 2006**. Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the *State of Maine Department of Transportation Standard Specifications, March 2026 Edition* and related Special Provisions.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is (Place bid here in alphabetical form such as One Hundred and Two dollars and 10 cents)
\$ (repeat bid here in numerical terms, such as \$102.10) Performance Bond and Payment Bond each being 100% of the amount of this Contract.

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, *Standard Specifications, March 2026 Edition, Standard Details March 2026 Edition*, Supplemental Specifications, Special Provisions, Contract Agreement, and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the *Standard Specifications March 2026 Edition* (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.
2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, *Standard Specifications, March 2026 Edition, Standard Details March 2026 Edition*, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of:

WIN 012345.00 South Nowhere, Hot Mix Asphalt Overlay,

State of Maine, on which bids will be received until the time specified in the “Notice to Contractors” do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached “Schedule of Items.”

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached “Schedule of Items” in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached “Schedule of Items,” which may be ordered by the Resident, and to accept as full compensation the amount determined upon a “Force Account” basis as provided in the *Standard Specifications, March 2026 Edition*, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier’s check, certificate of deposit or U. S. Postal Money Order in the amount given in the “Notice to Contractors”, payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work as stated in Section 107.2 of the *Standard Specifications March 2026 Edition* and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor’s Disadvantaged Business Enterprise Utilization Plan with their bid.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

Date

(Witness Sign Here)
Witness

CONTRACTOR
(Sign Here)
(Signature of Legally Authorized Representative
of the Contractor)

(Print Name Here)
(Name and Title Printed)

G. Award.

Your offer is hereby accepted.
documents referenced herein.

This award consummates the Contract, and the

MAINE DEPARTMENT OF TRANSPORTATION

Date

By: Dale F. Doughty, Commissioner

(Witness)

BOND # _____

CONTRACT PERFORMANCE BOND
(Surety Company Form)

KNOW ALL MEN BY THESE PRESENTS: That _____
_____ **in the State of** _____, as principal,
and.....
a corporation duly organized under the laws of the State of and having a
usual place of business
as Surety, are held and firmly bound unto the Treasurer of the State of Maine in the sum
of _____ **and 00/100 Dollars (\$** _____ **)**,
to be paid said Treasurer of the State of Maine or his successors in office, for which
payment well and truly to be made, Principal and Surety bind themselves, their heirs,
executors and administrators, successors and assigns, jointly and severally by these
presents.

The condition of this obligation is such that if the Principal designated as Contractor in
the Contract to construct Project Number _____ in the Municipality of
_____ promptly and faithfully performs the Contract, then this
obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the State
of Maine.

Signed and sealed this day of, 20.... .

WITNESSES:

Signature.....
Print Name Legibly

Signature
Print Name Legibly

SURETY ADDRESS:

.....
.....
.....

TELEPHONE.....

SIGNATURES:

CONTRACTOR:

.....
Print Name Legibly

SURETY:

.....
Print Name Legibly

NAME OF LOCAL AGENCY:

ADDRESS
.....
.....

BOND # _____

CONTRACT PAYMENT BOND
(Surety Company Form)

KNOW ALL MEN BY THESE PRESENTS: That _____
_____ **in the State of** _____, as principal,
and.....
a corporation duly organized under the laws of the State of and having a
usual place of business in
as Surety, are held and firmly bound unto the Treasurer of the State of Maine for the use
and benefit of claimants as herein below defined, in the sum of
_____ **and 00/100 Dollars (\$** _____ **)**
for the payment whereof Principal and Surety bind themselves, their heirs, executors and
administrators, successors and assigns, jointly and severally by these presents.

The condition of this obligation is such that if the Principal designated as Contractor in
the Contract to construct Project Number _____ in the Municipality of
_____ promptly satisfies all claims and demands incurred for all
labor and material, used or required by him in connection with the work contemplated by
said Contract, and fully reimburses the obligee for all outlay and expense which the
obligee may incur in making good any default of said Principal, then this obligation shall
be null and void; otherwise it shall remain in full force and effect.

A claimant is defined as one having a direct contract with the Principal or with a
Subcontractor of the Principal for labor, material or both, used or reasonably required for
use in the performance of the contract.

Signed and sealed this day of, 20

WITNESS:

SIGNATURES:

CONTRACTOR:

Signature.....

.....

Print Name Legibly

Print Name Legibly

SURETY:

Signature.....

.....

Print Name Legibly

Print Name Legibly

SURETY ADDRESS:

NAME OF LOCAL AGENCY:

.....

ADDRESS

.....

.....

TELEPHONE

.....

"General Decision Number: ME20260049 05/18/2026

State: Maine

Construction Types: Highway

Counties: Maine Counties of
York

Modification Number	Publication Date
0	01/02/2026
1	05/18/2026

SUME2014-044 06/23/2017

	Rates	Fringes
TRUCK DRIVER: DUMP TRUCK.....	\$ 19.99	4.00
TRAFFIC CONTROL: LABORER-CONES/ BARRICADES/BARRELS - SETTER/MOVER/SWEEPER.....	\$ 17.84	5.91
TRAFFIC CONTROL: FLAGGER.....	\$ 10.33	0.00
OPERATOR: ROLLER ASPHALT.....	\$ 19.64	6.09
OPERATOR: ROLLER (EARTH).....	\$ 16.52	1.66
OPERATOR: PAVER (ASPHALT, AGGREGATE, AND CONCRETE).....	\$ 20.17	4.83
OPERATOR: MILLING MACHINE.....	\$ 27.44	6.37
OPERATOR: MECHANIC.....	\$ 24.71	7.83
OPERATOR: LOADER.....	\$ 18.91	3.27
OPERATOR: GRADER/BLADE.....	\$ 27.40	8.13
OPERATOR: BULLDOZER.....	\$ 21.71	5.67
OPERATOR: BROOM/SWEEPER.....	\$ 19.49	0.00
OPERATOR: BOBCAT/SKID STEER/SKID LOADER.....	\$ 23.66	0.97
OPERATOR: BACKHOE/EXCAVATOR/TRACKHOE.....	\$ 20.58	3.81
LABORER: WHEELMAN.....	\$ 20.97	5.13
LABORER: EPOXY INJECTOR (CONCRETE).....	\$ 13.43	1.15
LABORER: COMMON OR GENERAL.....	\$ 15.11	2.46

LABORER: ASPHALT, INCLUDES RAKER, SHOVELER, SPREADER AND DISTRIBUTOR.....	\$ 17.53	2.13
IRONWORKER, STRUCTURAL.....	\$ 22.78	4.40
IRONWORKER, REINFORCING.....	\$ 21.85	0.00
INSTALLER - GUARDRAIL.....	\$ 19.98	2.55
HIGHWAY/PARKING LOT STRIPING: LABORER.....	\$ 16.27	2.19
ELECTRICIAN.....	\$ 25.21	5.63
CEMENT MASON/CONCRETE FINISHER.....	\$ 19.83	1.16
CARPENTER, INCLUDES FORM WORK.....	\$ 18.66	3.46

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.65 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract from May 11, 2026, through December 31, 2026. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than "SU", "UAVG", "SA", or "SC" denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The "SU" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based.

The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

"SU" wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The "SA" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the "SA" identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

- 1) Has there been an initial decision in the matter? This can be:
 - a) a survey underlying a wage determination
 - b) an existing published wage determination
 - c) an initial WHD letter setting forth a position on a wage determination matter
 - d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION

SPECIAL PROVISION
SECTION 104
GENERAL RIGHTS AND RESPONSIBILITIES
(Electronic Payroll Submission)
(Payment Tracking)

104.3.8.1 Electronic Payroll Submission The prime contractor and all subcontractors and lower-tier subcontractors will submit their certified payrolls electronically on this contract utilizing the Elation System web based reporting. There is no charge to the contracting community for the use of this service. The submission of paper payrolls will not be allowed or accepted. Additional information can be found at <http://www.maine.gov/mdot/contractors/> under the first “Notice”.

104.3.8.2 Payment Tracking The prime contractor and all subcontractors and lower-tier subcontractors will track and confirm the delivery and receipt of all payments through the Elation System

SPECIAL PROVISIONS
SECTION 104
UTILITIES

UTILITY COORDINATION

The Contractor has primary responsibility for coordinating their work with Utilities **AFTER** contract award. The Contractor shall communicate directly with the Utilities regarding any utility work necessary to maintain the Contractor's schedule and prevent project construction delays. The Contractor shall notify the Resident of any issues.

THE CONTRACTOR SHALL PLAN AND CONDUCT WORK ACCORDINGLY.

MEETING

A Preconstruction Utility Conference, as defined in Subsection 104.4.6 of the Standard Specifications **{IS}** required.

GENERAL INFORMATION

These Special Provisions outline the arrangements that have been made by the Department for utility and/or railroad work to be undertaken in conjunction with this project. The following list identifies all known Utilities or Railroads having facilities presently located within the limits of this project or intending to install facilities during project construction.

Utilities have been notified and will be furnished a project specification.

The Contractor shall give all Utilities **ten (10) working days' notice** prior to beginning **ANY** work on this project. In addition to the 10 working days' notice, the Contractor shall adhere to any specific notification periods stipulated in the utility/railroad summaries below.

The Contractor must exercise every reasonable precaution to prevent damage to the sewer main. Work around the water main shall be done in accordance with Section 104.4.6 "Utility Coordination" of the MaineDOT Standard Specifications and damage to the water main shall be handled in accordance with Section 104.3.11 "Responsibility for Property of Others".

OVERVIEW

Utility	Aerial	Subsurface	Contact Person	Contact Phone
Unitil		X	Derick Giroux	207-251-2533
Consolidated Communications	X	X	Michael McPherson	207-217-7711
FirstLight	X	X	Jarrold Smith	207-396-1100
City of Biddeford		X	Tom Milligan	207-590-2963
Central Maine Power	X		Kelvin Hall	207-468-6989
Spectrum	X		Danail Minchev	207-831-8989
Maine Water	X	X	Mickey Hall	207-615-2518
CSX	X	X	Michael Sliper	518-767-6081
			Adel Hadri	617-618-8811
			Ryan Peploski	617-528-6235

Temporary utility adjustments **{ARE}** anticipated. If any unexpected utility relocations become necessary, they shall be scheduled in accordance with Section 104 of the Standard Specifications and shall be performed by the appropriate utility company in conjunction with the work by the Contractor. Should the Contractor choose to have any poles temporarily relocated, all work shall be done at the Contractor's request and expense, with no additional cost or schedule impacts to the Department.

Unless otherwise specified, any underground utility facilities shown on the project plans represent approximate locations gathered from available information. The Department cannot certify the level of accuracy of this data. Underground facilities indicated on the topographic sheets (plan views) have been collected from historical records and/or on-site designations provided by the respective Utilities. Underground facilities indicated on the cross-sections have been carried over from the plan view data and may also include further approximations of the elevations (depths) based upon straight-line interpolation from the nearest manholes, gate valves, or test pits.

All adjustments are to be made by the respective Utility unless otherwise specified herein.

Fire hydrants shall not be disturbed until all necessary work has been accomplished to ensure proper fire protection.

All clearing and tree removal in areas where Utilities are involved must be completed before the Utilities are able to relocate their facilities.

It is the responsibility of the Contractor with the Utility pole owner, to layout all of the proposed pole locations in the field prior to the start of utility relocations. Should any adjustments be needed, the Utility will document adjustments and inform the Department prior to utility relocations.

The Contractor shall provide the Utilities access to the new pole locations. Construction of any spot cuts or fills in excess of 2 feet must be completed prior to utility relocations. The Contractor shall prepare a plan for how access and the spot cuts and fills will be accomplished and what the schedule will be for performing the work. This plan will be discussed at the pre-construction utility meeting.

***** Specific information regarding the line voltage can be requested from Central Maine Power Co. *****

Utility working days are Monday through Friday. Times are estimated on the basis of a single crew for each utility. Any times and dates mentioned are **estimates only** and are dependent upon favorable weather, working conditions, and freedom from emergencies.

AERIAL

Aerial Utility adjustments **ARE** anticipated for the completion of this project and will be scheduled in compliance with Section 104 of the Standard Specifications.

Aerial utilities require **five (10) working days' notice** prior to any operations involving work around their lines.

**** POLE LIST ****

Summary:

Utility	Pole Set	New Wires/ Cables	Trans. Wires/ Cables	Remove Poles	Estimated Working Days
Central Maine Power Company	X	X		X	5
Consolidated Communications			X		3
FirstLight			X		3
Spectrum			X		3
Total:					14

Utility Specific Issues:

{Central Maine Power Company} Have facilities within the project area that will require new poles to be set and transfer of existing lines. The utility will require 10 working days' notice prior to commencement of work and 5 days to complete this work.

{Consolidated Communications} Have facilities within the project area that will require transfers to new pole. The utility will require 10 working days' notice prior to commencement of work and 3 days to complete this work.

{FirstLight} Have facilities within the project area that will require transfers to new pole. The utility will require 10 working days' notice prior to commencement of work and 3 days to complete this work.

{Spectrum} Have facilities within the project area that will require transfers to new pole. The utility will require 10 working days' notice prior to commencement of work and 3 days to complete this work.

Pole List:

Existing Pole #	Existing Station	Left/Right		Existing Offset	Proposed Station	Left/Right		Proposed Offset	Comments
		L T	RT			LT	RT		
U/K	09+82.19		X		09+82.19		X	26.74	Taller Pole
U/K	19+63.89	X		16.26	19+28	X		17.5	Pole move
U/K	23+33.46	X		17.74	23+33.46	X		18.74	Pole move
U/K	24+41.51	X		16.74	24+41.51	X		17.74	Pole move
U/K	24+78.22	X		17.52	24+78.22	X		18.52	Pole move

SUBSURFACE

Subsurface Utility adjustments **{ARE}** anticipated at this time for the completion of this project and will be scheduled in compliance with Section 104 of the Standard Specifications. Adjustments to buried facilities such as sewer manholes is required. Adjustment of drainage structures is required prior to paving operations. Water gates will need adjusting, they will be checked, loosened, and adjusted/lowered and raised back to grade by the contractor.

Special Funding:

Special Funding requirements for Utilities, such as State Revolving Funding (SRF) will be tracked by the corresponding Utility.

Utility Specific Issues:**Maine Water Company**

The utility has entered into an opt-out agreement With Maine Department of Transportation to have the MDOT Contractor adjust water gates within the travel way. The gates shall be lowered for milling operations and raised back to grade for final paving operations. The number of gates is estimated at 18 structures. Prior to any adjustments the utility shall be notified 5 working days prior to provide an inspector to be present during work, performed if the utility chooses.

City of Biddeford (Sewer)

The utility has entered into an opt-out agreement With Maine Department of Transportation to have the MDOT Contractor adjust sewer manholes. The manholes shall be lowered for milling operations and raised back to grade for final paving operations. The number of manholes is estimated at 18 structures. Prior to any adjustments the utility shall be notified 5 working days prior to provide an inspector to be present during work, performed if the utility chooses.

Consolidated Communications: Consolidated communications have an underground duct that runs under the sidewalk from station 104+00 Lincoln street to station 10+55 Lt on Elm Street. The depth of cover is estimated 36inches below the sidewalk grade. Conflict is not expected with sidewalk reconstruction work. The Contractor should use caution while working in this area. The contractor shall contact Consolidated Communication prior to performing work in this area for further location of line if needed. Consolidated Communications will be responsible for manhole adjustments. The contractor will need to communicate with Consolidated Communications with finish grade adjustments. The utility will require 10 working days' notice prior to commencement of work and 3 days to complete this work.

Spectrum: Spectrum has an underground conduit that runs under the sidewalk from Hooper Street to Thornton Avenue. Also, from Station 15+65± then under the sidewalk to Lincoln street. The depth of cover is estimated 36inches below the sidewalk grade. Conflict is not expected with sidewalk reconstruction work. Contractor should use caution while working in this area. The contractor shall contact Spectrum prior to performing work in this area for further location of line if needed.

Until : Has gas gate valves within the project limits. Until anticipates needing to adjust the gate valves and will do their own utility adjustments. The utility will require 10 working days' notice prior to commencement of work and 3 days to complete this work.

RAILROAD CSX has an above grade bridge crossing within the project limits. The Contractor must review the Protection of Railroad Track Services (PRTS) provided in the contract bid package for details concerning CSX facilities.

The Contractor shall keep **ALL** personnel, equipment, and materials out of the Railroad's right-of-way, unless duly authorized by the Railroad and Rail Protection Services are present, if required. **NO** work shall take place within the Railroad's right-of-way without prior written authorization using the attached **Project Railroad Document Receipt & Sign-Off Form**.

MAINTAINING UTILITY LOCATION MARKINGS

The Contractor will be responsible for maintaining the buried utility location markings following the initial locating by the appropriate utility or their designated representative.

UTILITY SIGNING

Any Utility working within the construction limits of this project shall ensure that the traveling public is adequately protected at all times. All work areas shall be signed, lighted, and traffic flaggers employed as determined by field conditions. All traffic controls shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices for Streets and Highways, as issued by the Federal Highway Administration.

Project Railroad Document Receipt & Sign-Off Form

ME# / WIN #: _____ Location / Milepost / Segment: _____

Railroad (Owner / Operator): _____

MaineDOT Resident (Name): _____ Phone: _____

Contractor: _____ Phone: _____

Contact: _____ Phone: _____

Documents Received

I, the undersigned Resident in Charge, hereby acknowledge receipt of the following written *approved* railroad documents from the contractor in connection with the above-referenced project:

#	Document	Date Received	Comments (if any)	Initials
1	Railroad Approved Safety Plan / Rules / Procedures	____ / ____ / ____	_____	____
2	Railroad Approved Insurance Certificate(s) / Coverage Documents	____ / ____ / ____	_____	____
3	Railroad Approved Flagging requirements (or documentation showing no flagging needed)	____ / ____ / ____	_____	____
4	Contractor Superintendent Railroad Training document	____ / ____ / ____	_____	____

Conditions Before Work Commences

No work or equipment may commence or be within the railroad right-of-way until **all** of the above *approved* documents have been received from the contractor and accepted by the MaineDOT Resident if required. Railroad flagger must be onsite. Any contractor violating this will be subject to fines and loss of payment for all work done in violation.

Signature

MaineDOT Resident / Engineer/ Project Manager

Name: _____

Title: _____

Signature: _____

Date all documents received/work may proceed: ____ / ____ / ____

** Not all items may be required from all railroads*

Rev 3. 10/10/25

Optional: Supplementary Acknowledgment (for Document Revisions, Page 2)

If any of the above documents are revised or supplemented during the course of the work, the Resident shall sign below to confirm receipt of the updated *approved* version:

Revision #	Document Revised	Date Received	Summary of Change	Signature / Date
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SPECIAL PROVISION 105
CONSTRUCTION AREA

Construction Areas located in the City of Biddeford have been established by the Maine Department of Transportation (MDOT) in accordance with provisions of 29-A § 2382 Maine Revised Statutes Annotated (MRSA).

The sections of highway under construction in York County:

Project 025653.00 is located in the city of Biddeford along Route 1, beginning just north of the Upper Falls/One Diamond intersection and extending south 0.30 of a mile.

Per 29-A § 2382 (7) MRSA, the MDOT may “issue permits for stated periods of time for loads and equipment employed on public way construction projects, United States Government projects or construction of private ways, when within construction areas established by the Department of Transportation. The permit:

A. Must be procured from the municipal officers for a construction area within that municipality;

B. May require the contractor to be responsible for damage to ways used in the construction areas and may provide for:

(1) Withholding by the agency contracting the work of final payment under contract; or

(2) The furnishing of a bond by the contractor to guarantee suitable repair or payment of damages.

The suitability of repairs or the amount of damage is to be determined by the Department of Transportation on state-maintained ways and bridges, otherwise by the municipal officers;

C. May be granted by the Department of Transportation or by the state engineer in charge of the construction contract; and

D. For construction areas, carries no fee and does not come within the scope of this section.”

The Municipal Officers for the City of Biddeford agreed that an Overlimit Permit will be issued to the Contractor for the purpose of using loads and equipment on municipal ways in excess of the limits as specified in 29-A MRSA, on the municipal ways as described in the “Construction Area.”

As noted above, a bond may be required by the municipality, the exact amount of said bond to be determined prior to use of any municipal way. The MDOT will assist in determining the bond amount if requested by the municipality.

The maximum speed limits for trucks on any city way will be 25 mph (40 km per hour) unless a higher legal limit is specifically agreed upon in writing by the Municipal Officers concerned.

SPECIAL PROVISION
SECTION 105
General Scope of Work
(Environmental Requirements)

- I. Historic Resources are present adjacent to and along the Project. MaineDOT has completed consultation in accordance with Section 106 of the National Historic Preservation Act and Programmatic Agreement for the project as presented. The Contractor shall comply with the provisions from Standard Specification 105.9 related to changes in the design at these historic properties during construction including tree clearing, property impacts, or project materials. The following is project specific:
- A. This project is located along and adjacent to Section 106 and Section 4(f) resources:
1. Historic Districts:
 - a) **Boston & Maine Railroad** (District): Station 13+25 to 14+00 Right:
 - b) **US Route 1** (District): Station 501+00 to 601+00:
 - c) **Biddeford Mills Historic District**: Station 14+40 to 20+75 Left & Right:
 - d) **Biddeford Main Street Historic District**: Station 22+50 to 24+78 Left & Right:
 2. Properties contributing to Historic Districts:
 - a) Station 10+25 to 11+00 Left: 1 Upper Falls Road
 - b) Station 15+60 to 16+60 Left: 81 Elm Street
 - c) Station 22+90 to 23+75 Right & 601+00 to 601+60 Left: 316 Main Street
 - d) Station 501+00 to 501+50 Left: 311 Main Street
 3. Other Properties:
 - a) Pocket Park: Station 501+00 to 501+94 Left and 24+00 to 24+78 Left.
- B. Deviations from the approved project design during construction within the above-specified stations shall be approved by the MaineDOT Project Manager. Changes could have adverse effects to the historic resources and jeopardize federal funding.

SPECIAL PROVISION
SECTION 105
GENERAL SCOPE OF WORK
(Limitations of Operations)

The Contractor shall maintain two-way traffic except for when there is limited space to maintain two-way traffic. Operations like milling and paving the roadway may require one-way alternating traffic. Whenever one-way alternating traffic is proposed by the Contractor, it must first be approved by the MaineDOT Resident.

Work on this contract is expected to be completed at night, between the hours of 7:00 p.m. and 7:00 a.m. Two-way traffic must be maintained between the hours of 7:00 a.m. and 7:00 p.m. Maximum lane closure length on the project will be 1500 FT.

Pedestrian and ADA access must be maintained throughout the work zone at all times. Appropriate signage and other necessary accommodations must be made in order to allow pedestrians safe and efficient access through the work zone.

The traffic control plan must be approved by the MaineDOT Resident.

Access to businesses will remain open at all times.

The Contractor shall participate in a public open house with the Department at least one week before construction activities begin to answer questions related to the project's schedule of work.

MaineDOT DBE Project Attainment Target (PAT) for this Project is 0%
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The MaineDOT seeks to meet the specified annual Disadvantaged Business Enterprise (DBE) usage goal set out by 49 CFR 26.45 through the efforts of contractors seeking to employ qualified DBE subcontractors. We seek to meet this goal by race neutral means and do not, at this time, use contract specific requirements for each project. We do however, understand the capacity of Maine's DBE community and the unique characteristics a project may have that would differ from the broad annual goal.

Taking this into consideration, the MaineDOT will review each project and develop an anticipated attainment or Project Attainment Target (PAT) based on several factors that are project specific. Those factors include:

- ☐ Scope of Work
- ☐ DBE availability according to Specification Item
- ☐ Geographic location
- ☐ DBE capacity

This PAT is developed to assist contractors to better understand the DBE participation that the MaineDOT can reasonably expect for a specific project. The PAT is NOT a mandate but an assessment of the DBE opportunities that this project could meet or exceed. MaineDOT anticipates that each contractor will make the best effort to reach or exceed the PAT for this project.

SPECIAL PROVISION
SECTION 106 - HOT MIX ASPHALT PAVEMENT

The following subsections of the most current version of Specification 100 – General Conditions have been revised and amended by the following:

106.7.3 Early Termination of Lots

In the event a Lot in progress is terminated prematurely before the Department is able to take the number of acceptance samples required by the test method specified in the Contract, the following will apply as applicable unless otherwise detailed in the specifications for the item:

1. For items under statistical acceptance where payfactors are generated
 - a. If three or more samples have been taken, then payfactors will be generated using the available samples results for the lot.
 - b. If the termination was requested by the Contractor and approved by the Department prior to three samples being taken, then each property's payfactor will be set to 0.80.
 - c. If the termination was initiated by the Department prior to three samples being taken, then each property's payfactor will be set to 1.00 for each property.
2. For items not under statistical acceptance
 - a. If initiated by the contractor and no random sample has been reached the entire lot shall be subject to a penalty of 20% of the item's price.
 - b. If initiated by the contractor and only the most recent sample tonnage has not been reached only the tonnage for that subplot will be subject to a penalty of 20% of the items price.

An HMA mix design aim change request from the Contractor with open Lots in progress will constitute a contractor initiated lot termination. For methods A & C, the minimum samples required to generate a pay factor prior to termination will be three. If a minimum of three samples have not been obtained, then each property's payfactor will be set to 0.80. For methods B & D the minimum number of samples (sublots) required prior to an aim change will be the total tonnage of the lot, or a minimum of three, whichever is less. If the minimum number of samples have not been obtained then the pay adjustment for each of the subplot's properties will be set to 0.80.

SPECIAL PROVISION
SECTION 107
PROSECUTION AND PROGRESS
(Contract Time)

The contractor will be allowed to commence work on this project as long as all applicable plans required under this contract have been submitted, approved, and a pre-construction meeting held.

The completion date for this contract is **November 30, 2027**.

All work schedule changes must be submitted for approval to the Department a minimum of 48 hours prior to the requested change.

All travel lanes shall be open to traffic and the roadway in safe operating condition when the contractor suspends work for holidays or extended periods of time as directed.

Absences must be requested at least 72 hours in advance and are subject to Department approval based on existing roadway conditions, paving deadlines, adherence to schedule, traffic restrictions, etc. The Contractor must assure that the roadway surface and signage are maintained for safe passage of the traveling public during any approved absences. The Contract Completion Date will not be modified due to approved absences.

SPECIAL PROVISION
SECTION 107
CONTROL OF WORK

The Contractor shall not park any vehicles in any driveways or entrances without first obtaining property owner permission.

The Contractor shall notify the Resident three (3) working days prior to the commencement of construction activities.

The work shall not commence until the traffic control plan has been approved. Once the Contractor begins work at one project location, the Contractor shall continue to work at that location until the project is complete, unless otherwise approved by the Resident.

SPECIAL PROVISIONS
SECTION 202
REMOVING STRUCTURES AND OBSTRUCTIONS
(Removing Pavement Surface)

The March 2026 Revision of the Standard Specifications, Section 202-Removing Structures and Obstructions, subsection 202.051-Removing Pavement Surface, has been removed and replaced in its entirety by the following:

202.051 - Removing Pavement Surface The equipment for removing the bituminous surface shall be a power operated milling machine or grinder capable of removing bituminous concrete pavement to the required depth, transverse cross slope, and profile grade using an automated grade and slope control system. The controls shall automatically increase or decrease the pavement removal depth as required, and readily maintain desired cross slope, to compensate for surface irregularities in the existing pavement course. The equipment shall be capable of accurately establishing profile grades by referencing from a fixed reference such as a 30 foot minimum contact ski (floating beam), 24 foot non-contact ski (floating beam) with 3 or more sensors; or 3 non-contact sensors directly affixed at the fore, mid, and aft points of the milling machine. Systems designed to incorporate a contact sensor located at the mid-point of the milling machine in lieu of the non-contact sensor will be permitted. Grade control sensors shall all be located on the same side. A single sensor, contact or otherwise, shall not be permitted unless otherwise approved by the Department.

The rotary drum shall be a minimum of 7 feet in width and utilize carbide tip tools at a minimum triple wrap configuration. The difference in height from the top of any ridge to the bottom of the groove adjacent to that ridge shall not exceed $\frac{1}{4}$ inch. The forward speed of the milling machine shall be adjusted to produce a milled surface meeting the groove spacing, groove depth, and surface tolerance requirements of this specification. The tools on the revolving cutting drum must be continually maintained and shall be replaced as warranted to provide a uniform pavement texture. The Department may evaluate the texture of the milled surface for information purposes by performing the Sand Patch test according to ASTM E 965.

The Contractor shall locate and remove all objects in the pavement through the work area that would be detrimental to the milling or grinding machine. Any structures or obstructions left within the travel lane or shoulders shall have tapers installed according to Standard Detail 202(01). The finished milled surface will be inspected before being accepted, and any deviations in the profile exceeding $\frac{1}{2}$ inch under a 16 foot string line or straightedge placed parallel to the centerline will be corrected. Any deviations in the cross-slope that exceed $\frac{3}{8}$ inch under a 10 foot string line or straightedge placed transversely to centerline will be corrected. All corrections will be made with approved methods and materials. Any areas that require corrective measures will be subject to the same acceptance tolerances. Excess material that becomes bonded to the milled surface will be removed to the Resident's satisfaction before the area is accepted.

On roadways with adjoining lanes carrying traffic, the Contractor shall remove the pavement surface in each lane per the conditions in Table 1, unless otherwise noted by the Department in Special Provision, Section 105 – Limitations of Operations.

TABLE 1: MILLING CONDITIONS FOR ADJOINING LANES

Depth (At Centerline)	Milling Conditions
Vertical Longitudinal Joint	
2" and less	The Contractor may remove the pavement on a single travel lane width for each production day and will be required to mill the adjacent section of travel lane before the end of the following calendar day.
Greater than 2"	The Contractor shall remove the pavement over the full width of the traveled way section being paved that day.
12:1 Tapered Centerline Joint	
1 ½" to 2"	The Contractor may remove the pavement on a single travel lane width for each production day and will be required to mill the adjacent section of travel lane before weekend or holiday suspension. A maximum unmatched centerline joint length of 0.5 miles will be permitted over the weekend.
Greater than 2"	The Contractor shall remove the pavement on a single travel lane width for each production day and will be required to mill the adjacent section of travel lane before the end of the following calendar day.

The Contractor will be required to remove the pavement over the full width of the mainline traveled way, regardless of highway type, cut depth, or longitudinal joint type prior to Memorial Day, July 4th, Labor Day, suspensions exceeding three days, or other dates as specified by Special Provision, Section 105 – Limitations of Operations.

The Contractor will also be responsible for installing additional warning signage that clearly defines the centerline elevation differential hazard. Unless otherwise addressed in the contract, the Contractor shall install additional centerline delineation such as a double RPM application, or temporary painted line. The Traffic Control Plan shall be amended to include this option and the additional requirements. All signs and traffic control devices will conform to Section 719.01, and Section 652, and will be installed prior to the work, at a maximum spacing of 0.50 mile for the entire length of effected roadway section. If this option is utilized, all additional signing, labor, traffic control devices, or incidentals will not be paid for directly, will be considered incidental to the appropriate 652 items.

On roadways with immediately adjacent shoulders, the Contractor shall remove the pavement surface in each lane per the conditions in Table 2, unless otherwise noted by the Department in Special Provision, Section 105 – Limitations of Operations.

TABLE 2: MILLING CONDITIONS FOR THE EDGE OF TRAVELED WAY

Depth (At Edge of Traveled Way)	Conditions
2" and less	The Contractor may leave a vertical edge joint exposed for up to 21 days after milling is performed. The Contractor shall treat vertical edge joints exposed beyond 21 days per the criteria below.
Greater than 2"	The Contractor shall treat vertical edge joints exposed per the criteria below.

When required by Table 2, the Contractor shall treat vertical edge joints through one of the options below:

1. The vertical edge shall be tapered to a zero edge by means of milling a 12:1 transition from the edge of traveled way onto the shoulder before opening the lane to traffic. Tapers shall be removed to form a vertical edge prior to the placement of the new pavement course. No additional payment will be made for tapers, or taper removal.
2. An additional 2 feet of pavement shall be removed from the shoulder to eliminate the vertical edge at the edge of travelway before opening the lane to traffic. Unless otherwise authorized by the Department, no additional payment will be made for the additional milling.
3. A pavement layer shall be placed to reduce the vertical edge to 1 inch or less before opening the lane to traffic.

As a minimum, the use of temporary painted line, or RPMs placed along the edge of traveled way at 200 foot intervals is required for all elevation differentials. When pavement milling is extended into the shoulder (including milled tapers), appropriate channelization devices shall be placed 2 feet outside the edge of the vertical face at intervals not exceeding 600 feet, and RPMs shall be placed on the remaining pavement surface along the vertical edge at 200 foot intervals. Uneven pavement signs shall be placed at a maximum spacing of ½ mile when any pavement milling operations leaves an exposed uneven pavement surface.

Weepers shall be ground across the full width sections adjacent shoulders or remaining pavement surface matching the milled travel way or shoulder milled depth to minimize water ponding in any lanes carrying traffic. Weepers shall typically be 18 - 24" inches in width, installed along each lane, at a frequency of approximately one per half mile at locations as directed by the Resident or in areas that will provide drainage for the milled areas. Installation of weepers will not be paid for directly but will be considered incidental to the contracts pavement removal item. The replacement of mix in the weeper locations shall be performed concurrently within the pavement placement operation closure using the appropriate HMA item produced for the Contract or a MaineDOT approved 9.5mm HMA. There will be no separate payment for repaving the weeper locations as they are considered incidental to the square yard price of the contracts pavement removal item.

The milled surface shall be cleaned of all material resulting from the pavement removal operation. Loaders, skid steers, motorized side cast brooms, sweeper pick up brooms, vacuum pick up machines and hand labor may be used in any number or sequence as determined by the Contractor in order to clean the milled surfaces to the satisfaction of the Department before acceptance and opening the area up to traffic. The use of compressed air may be required to loosen any bonded materials from the surface to aid in cleaning.

Any areas of concern, such as de-lamination or pot-holing shall be identified on a continuous basis as milling progresses. Proper corrective action will be determined by the Resident and paid for under the appropriate contract items, and if required, completed prior to opening lane to traffic. Any issues that arise up to 7 calendar days after being milled will be the responsibility of the MaineDOT unless otherwise noted in Special Provision Section 105 – Limitations Of Operations.

Contractor Quality Control

Quality Control The Contractor shall develop and submit a Quality Control Plan (QCP) that addresses the methods to be used, equipment to be used, work accomplished (quantity measurements and tracking) as well as methods of cleaning and protection of the work as it is completed. The Contractor shall control the work and operate in accordance with the approved QCP in order to complete work meeting the contract requirements. The Contractor shall not begin pavement removal operations until the Department approves the QCP in writing.

Quality Control The QCP shall meet the requirements of Section 106.6 – Acceptance and this Section. The QCP shall address any items that affect the quality of the operation, and shall include the following personnel meeting these minimum requirements:

- a. QCP Administrator – The QCP Administrator must be a full-time employee of or a consultant engaged by the prime contractor or pavement removal subcontractor. The QCP Administrator shall have full authority to institute any and all actions necessary for the successful implementation of the QCP. The QCP Administrator (or their designee in the QCP Administrator's absence) may not be required to be onsite during all work activities but shall be available to communicate with the Department as needed.
- b. Onsite Representative - The Onsite Representative (OR) shall be onsite and work directly with the crew as needed. The OR shall perform quality control inspections or measurements at the job site to assure that layout, pavement removal depth, width, profile and final surface tolerance meet the requirements of the contract.

The QCP shall detail the coordination of the activities of the Plan Administrator, and the OR. The Superintendent shall be named in the QCP if different than the OR, and the responsibilities for successful implementation of the QCP within the companies' activities shall be outlined.

The QCP shall address any items that may impact the quality of pavement removal activities and final milled pavement surface including, but not limited to, the following:

a. General Requirements:

- Name of QCP Administrator
- Description of corrective action processes
- Remediation of defective work

b. Quality Control Plan requirements

- Name of Onsite Representative(s)
- Equipment make and model (including product sheet)
- Width of cutting drum
- Automation make, model and series (including product sheet)

- Describe automation set up, including methods to ensure pavement removal operations meet the requirements of the contract using control points, reference points, and cut points as well as any slope or cut depth transitions.
- Describe project layout, including centerline and any edge cut control, any off-set control layout to maintain or recreate centerline or edge cut control, cross slope transitions, or variable depth transitions required to perform the work
- Procedures to remove pavement surface to the required depth, width and profile
- Procedures to monitor pavement removal activities to ensure the final milled surfaces meet surface tolerance and texture requirements
- General cleaning operation activities including equipment to be used to sweep, vacuum and prepare surfaces for traffic use
- Procedures to ensure that traffic can transition from the milled to non-milled surfaces safely.
- Procedures to protect the milled surfaces from deterioration from construction activities, traffic or weather impacts

A summary of the day's results including a quantity report, equipment used, and environmental conditions will be recorded and signed by the OR and presented to the Department's representative by 1 PM the following working day.

Failure to adhere to the QCP, replace or repair defective or non-conforming equipment, or adjust material or installation procedures in an effort to produce work that meets the contract requirements will result in a notification of a quality control violation resulting in monetary penalties.

A letter describing the violation shall be provided to the Contractor which will result in a mandatory work suspension and a reduction in payment as shown in Table 106.4A below. The Contractor shall submit a letter to the Department that details the corrective action made to address the violation(s) in its Quality Control Plan. Work may resume when the Department is satisfied the corrective action will result in adherence to the Quality Control Plan.

Table 106.4 A - Quality Control Pay Reduction

Quality Control Plan Value*		Pay Reduction		
From More Than	To and Including	1st	2nd	3rd & Subsequent
\$0	\$500,000	\$1,000	\$2,000	\$4,000
\$500,000	\$1,000,000	\$2,000	\$4,000	\$8,000
\$1,000,000	\$3,000,000	\$5,000	\$10,000	\$20,000
\$3,000,000	and more	\$10,000	\$20,000	\$40,000

* The Quality Control Plan Value is the total Bid value of all items covered by a Quality Control Plan, as detailed in the applicable specification or Special Provision.

Pay reductions for failure to comply with the approved QCP are cumulative, and the Department will deduct any pay reductions from amounts otherwise due the Contractor. These pay reductions are intended to encourage the Contractor to comply with its approved QCP, and are not necessarily related to the quality of the work provided.

Basis of Payment

The square yard or hourly rental contract price will be full compensation for development and submittal of the QCP, mobilizing to the site, de-mobilizing from the site, labor, supervision, cleaning of the milled surface, management of the items covered by the QCP, and all other incidentals required to complete the work. Hauling and stockpiling of the material will not be paid for directly, but will be considered incidental to the milling items.

Square Yard: Payment will be made at the contract unit price for the number of square yards removed.

Hourly: Payment will be made at the contract unit price for the number of hours of operation removing pavement surface as directed by the Resident. The equipment used for pavement removal shall be operated at the minimum speed of 50 fpm, unless the Resident directs otherwise for milled surface quality reasons, or traffic control limitations impact pavement removal operations, or site conditions make operations at the prescribed rate unreasonable. Trimming to create a vertical face along curb line, guardrail, or around structures will be considered incidental to the pay items. Additional trimming beyond the incidental work described will be paid under the appropriate rental items as listed in the Contract.

<u>Pay Item</u>	<u>Pay Unit</u>
202.202 Removing Pavement Surface	S.Y.
202.20201 Removing Pavement Surface (Hourly)	Hour

**SPECIAL PROVISION
SECTION 203
EXCAVATION AND EMBANKMENT
(CONTAMINATED SOIL AND GROUNDWATER MANAGEMENT)**

General

The work under this specification shall be performed in conformance with all procedures and requirements described herein for the following activities: contaminated soil handling, reuse, temporary stockpiling, transportation, storage and disposal and, contaminated water handling, storage, treatment and disposal. This specification also addresses contaminated soil location, identification, and classification. The intent of this specification is to ensure that any contaminated soil and/or groundwater encountered during construction will be managed in a manner that protects worker health and safety, public welfare, and the environment.

Environmental Site Conditions

The Maine Department of Transportation Environmental Office (MaineDOT-ENV) has conducted a series of assessments related to the Elm Street Reconstruction project in Biddeford, Maine. An initial Phase I Environmental Assessment for the project area was completed to obtain a general understanding of the environmental conditions along the project corridor. Data garnered from this assessment was used to design a Modified, Phase II Contamination Assessment for the project. The primary focus of the assessments was to evaluate the type and extent of subsurface contamination in the project area. The Phase I assessment included a review of relevant Maine Department of Environmental Protection (MDEP) and Environmental Protection Agency (EPA) databases, and field reconnaissance of the project area. During Phase II, auger borings were advanced at select locations for investigative purposes. Using data gathered from the advancement of environmental borings and previous work by others, three areas with impacted soils were identified. A photo-ionization detector (PID) was used to test soil grab samples from borings for Volatile Organic Compound (VOC) concentrations indicative of petroleum products. (See **Identified Areas of Contamination** below). Select samples for laboratory testing were also collected to further aid in evaluating and characterizing subsurface conditions. Results of these investigations are available for review from the Senior Geologist at MaineDOT-ENV in Augusta (207-624-3000).

Identified Areas of Contamination

The MaineDOT-ENV investigation identified three areas of soil contamination associated with the Elm Street Reconstruction Project. For reference, these areas are designated as “**Area A**”, “**Area B**” and “**Area C**”. The location of **Area A** is defined as the area adjacent to the Domino’s Pizza Restaurant (111 Elm street) on the southside of U.S. Route 1, approximately between Stations 18+00 to 19+00. Within **Area A**, soil screened with a PID ranged from Non-Detect (ND) to 65.1 parts per million (ppm). Field observations note strong hydrocarbon-like odors. Chemical analysis results for **Area A** are included in Table 1 of this SP203.

Area B is defined as the project extent adjacent to the Wok n Roll Restaurant and a vacant parcel (131 and 138 Elm street), northbound and southbound side of U.S. Route 1, approximately between Stations 21+00 to 22+00. Within **Area B**, soil screened with a PID ranged from ND to 220 parts ppm. Chemical analysis results for **Area B** are included in Table 1 of this SP203.

Area C is defined as the project area adjacent to the Shell gas station (151 Elm Street) on the southeastern corner of Elm Street and Main Street intersection (northbound side of Elm Street), approximately between Stations 24+00 to 22+00. Within **Area C**, soil screened with a PID ranged from ND to 5.7 ppm. Chemical analysis results for **Area C** are included in Table 1 of this SP203.

Table 1: Chemical Analysis – Elm Street Reconstruction – Biddeford, ME

Chemical/Fraction	Area A	Area B	Area C
1,2,4 Trimethylbenzene	ND	ND	0.019
1,3,5-Trimethylbenzene	ND	ND	0.017
2-Phenylbutane	ND	0.0014	0.13
Acetone	ND	ND	0.034
Benzene	ND	0.0038	0.001
Cymene	ND	0.0012	0.18
Ethylbenzene	ND	0.024	0.004
Isopropylbenzene	ND	0.0047	0.0066
Lead	9.46	9.07	16.1
m,p-Xylenes	ND	0.011	0.0022
Naphthalene	ND	0.0093	0.0041
n-Butylbenzene	ND	0.001	0.0028
n-Propylbenzene	ND	0.0083	0.0068
Xylene	ND	0.011	0.0022
C5-C8 Aliphatics	10.2	ND	110
C9-C12 Aliphatics	69.5	ND	330
C9-C18 Aliphatics	25.4	ND	109
C19-C36 Aliphatics	ND	ND	ND
C9-C10 Aromatics	38.3	ND	138
C11-C22 Aromatics	ND	ND	9.58
Results in Mg/Kg. ND=Non-Detect			

Concentrations of detected compounds define these soils as potential **Special Waste** per State remedial guidelines. Special Waste requires specific handling/management, transportation, and disposal procedures. Soil contamination in **Areas A, B and C** appears to be related to historical use of adjacent properties or nearby retail gasoline facilities. Compounds detected indicate historical releases/spills of petroleum products that impacted subsurface conditions at the sites and within the MaineDOT right-of-way (ROW).

Identifying and Screening Contaminated Soil and Groundwater

Within the contaminated sections designated as **Area A, Area B and Area C**, excavated soils will be classified by the Resident (or a MaineDOT-ENV representative) based on PID field screening measurements following the **Excavation-Construction Worker Cleanup Scenario** as prescribed in Table 1 – Approved PID Field Cleanup and Notification Guidelines in **MDEP Standard Operating Procedure (SOP) TS004 – COMPENDIUM of FIELD TESTING of SOIL SAMPLES for GASOLINE and FUEL OIL (10/15/2012)**.

Excavated soils within **Areas A, B and C** shall be classified as Group 1, Group 2, or Group 3.

Group 1 soils shall have PID field screening measurements indicating relative concentrations of volatile organic compounds (VOCs) less than or equal to 10 ppm as measured in 200-gram bag-headspace sample and an “Undetected” result using an oleophilic dye test.

Group 2 soils shall have PID field screening measurements indicating VOC concentrations greater than 10 ppm as measured in a 200-gram bag-headspace sample and less than the value indicated in Table 1 of SOP-TS004 when screened in accordance with the **Excavation-Construction Worker Cleanup Scenario** OR indicate a “Slightly Positive” result using an oleophilic dye test.

Group 3 soils shall exceed the threshold limit stated in the TS004 Compendium of Field Testing of soil samples exceeding the **Excavation-Construction Worker Cleanup Scenario** or indicate a “Saturated”/“Positive” result using an oleophilic dye test.

Handling and Disposition of Soil Materials

Within **Areas A, B and C**, soil material excavated during construction shall be handled as follows:

Group 1 soils are not considered contaminated. Thus, special handling and disposal are not required for Group 1 Soils.

Group 2 soils shall be placed back into their excavation section of origin. The Contractor shall make every attempt to side cast any Group 2 soils next to the excavation site. Upon completion of the given constructional feature, Group 2 soils

shall be placed back into the excavation up to 2 feet below ground surface. Group 2 materials not handled in this manner shall be considered Surplus Group 2 soils. Surplus Group 2 soils must be disposed of or treated at a facility licensed by the MDEP to accept petroleum contaminated special waste. The Contractor is solely responsible for obtaining associated permits and approvals for disposal or treatment of the Surplus Group 2 soils from relevant Municipal, State, and Federal agencies at no additional cost to the State. Notification shall be given to the Resident once approval is granted for the acceptance of this material at the off-site facility. No removal of Surplus Group 2 soil from the project shall occur without prior approval by the Resident. If any Surplus Group 2 soils cannot be transported to the pre-approved, properly licensed facility within 8 hours of their excavation, they must be placed in a Temporary Secure Stockpile Area somewhere within the project limits (See Temporary Secured Stockpile Area below).

Group 3 soils shall not be excavated without prior approval by the Resident. The Contractor shall arrange and undertake disposal of all Group 3 soils at a landfill or treatment facility licensed to accept petroleum contaminated special waste. The Contractor is responsible for all additional testing required by the receiving facility. Group 3 soils that cannot be disposed of within 8 hours of excavation shall be stored in a Temporary Secured Stockpile area. If the Contractor proposes other disposal or treatment options, the Contractor is solely responsible for obtaining the associated permits and approvals from relevant Municipal, State, and Federal agencies at no additional cost to the State. The Resident is responsible for signing any manifests or bills of lading required to transport and dispose of contaminated soil. The Resident will send all manifests and bills of lading to MaineDOT, Environmental Office, Station 16, Augusta, Maine 04333.

Trench and Underdrain/Stormdrain Design in Contaminated Sections

In **Areas A, B and C**, solid, Option III, non-perforated pipe shall be used in replacement of perforated underdrain pipe to help prevent the infiltration and transportation of potentially contaminated groundwater within the underdrain/storm-drain system. The Contractor shall backfill around the pipe and trenches in this section with clean material. Backfilling of the trench shall be in accordance with Section 206.03. All stones larger than 3 inches, frozen lumps, dry chunks of clay or any other objectionable matter shall be removed before backfilling.

Seepage control dikes (SCD) shall be installed roughly every 60 feet along the stormwater pipe trench.

SCDs shall consist of a mineral clay material with a liquid limit of equal to or greater than 24 and a natural moisture content of at least 20 percent. The clay should be placed in dry excavations in 6-inch maximum, thick lifts and compacted to 90% of the maximum dry unit weight as determined by AASHTO T99 (Standard Proctor). The SCDs shall be 5 feet

long, be in intimate contact with the trench floor, trench walls and circumference of the pipe and extend up to the bottom of the road base. The excavated existing road base or similar material may be placed on top of the SCDs. The Contractor shall take care to ensure that no voids or uncompacted soil is left beside or beneath the Option III culvert pipe.

Secured Stockpile Area

Direct transport of Surplus Group 2 or Group 3 soils to a pre-approved management facility is recommended. However, should the Contractor temporarily store any Surplus Group 2 or Group 3 soils at the site for more than 8 hours following excavation, they must be placed into a properly constructed Temporary Secured Stockpile Area. The Temporary Secured Stockpile Area must be constructed as defined herein and must be approved by the Resident prior to its use.

Should the Contractor utilize a Temporary Secured Stockpile Area, they shall install a continuous 0.3-meter-high compacted soil berm around the Secured Stockpile. The Secured Stockpile shall be placed on a liner of 20-mil polyethylene and securely covered with 20-mil polyethylene. The polyethylene liner and cover shall be placed over the soil berm and be installed to ensure that precipitation water drains directly to the outside of the berm perimeter while leachate from the contaminated soil is retained within the stockpile. The Secured Stockpile and soil berm shall be enclosed within a perimeter of concrete Jersey barriers or wooden barricades. The area within the Jersey barriers (or wooden barricades) shall be identified as a "restricted area" to prevent unauthorized access to the contaminated soil.

Secured Stockpile Area – Materials

- A. Polyethylene.** Polyethylene used for liner in the Secured Stockpile Area shall have a minimum of 20-mil thickness and shall meet the requirements of ASTM D3020.
- B. Common Borrow.** Fill used in the construction of the Temporary Secured Stockpile Area soil berm shall consist of Common Borrow and meet the requirements of Section 703.18
- C. Concrete Barriers or Wooden Barricades.** Concrete barriers or Wooden Barricades to form the sides of the Temporary Secured Stockpile Area shall meet the requirements of Section 526 or 652.05.

Health and Safety/Right-to-Know

Contractors and subcontractors are required to notify their workers of the history of the site and contamination that may be present and to be alert for evidence of contaminated soil and groundwater. The Contractor shall notify the Resident **at least three business days** prior to commencing any excavation in **Areas A, B and C**.

The Contractor shall prepare a site-specific Health and Safety Plan (HASP) for its workers and subcontractors who may work in the contaminated areas of the site. A Qualified

Health and Safety Professional shall complete the HASP. The Qualified Health and Safety Professional will be an expert in field implementation of the following federal regulations:

29 CFR 1910.120 or 29 CFR 1926.65	Hazardous Waste Operations and Emergency Response
29 CFR 1910.134	Respiratory Protection
29 CFR 1926.650	Subpart D – Excavations
29 CFR 1926.651	General Requirements
29 CFR 1926.652	Requirements for Protective Systems

MaineDOT is voluntarily ameliorating the contamination in **Areas A, B and C**. Remedial efforts defined herein have been reviewed and approved by MDEP. Given that this is a voluntary clean-up effort approved by a regulatory agency, the OSHA requirements as defined in 29 CFR 1910.120 apply. These requirements mandate that workers and any subcontractors working in the contaminated areas shall comply with all OSHA regulations for Hazardous Waste Operations and Emergency Response including a 40- hour initial hazardous waste operations certification [OSHA 1910.120(e)], annual 8-hour refresher course within the last 12 months and medical surveillance [OSHA 1910.120(f)] within the last 12 months.

The Contractor shall designate a person to provide direct on-site supervision of the work in the contaminated areas. This person shall have the training under OSHA 1910.120 (e) as above and in addition be qualified as a construction Competent Person. It is the responsibility of the competent person to make those inspections necessary to identify situations that could result in hazardous conditions (e.g., possible cave-ins, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions), and then to ensure that corrective measures are taken.

Submittals

The Contractor shall submit a site-specific Health and Safety Plan (HASP) to the Resident at least two weeks in advance of any excavation work on the project. The Contractor shall not proceed with work until MaineDOT has reviewed the plan and notified the Contractor that it is acceptable.

Health and Safety Monitoring

Within the contaminated areas of the project, the Contractor's designated on-site person shall monitor the worker breathing zone for those constituents specified in the Contractor's HASP. The Contractor shall provide all required health and safety monitoring equipment.

Dewatering

Groundwater may be encountered, and its removal is necessary to complete work within **Areas A, B and C**. This groundwater will be treated as “contaminated” water. The Contractor shall inform the Resident before any dewatering commences. “Contaminated” water shall be pumped into a temporary holding tank(s). The Contractor will be responsible for the procurement of any holding tank(s). Any testing, treatment and/or disposal of the stored, petroleum-contaminated water shall be undertaken by the Contractor in accordance with applicable Federal, State and local regulatory requirements.

On-Site Water Storage Tanks – Materials

If dewatering within the identified contaminated area becomes necessary, the holding tanks used for temporary storage of contaminated water pumped from excavations shall be contamination free and have a minimum capacity of 2,000 gallons.

Dust Control

The Contractor shall employ dust control measures to minimize the creation of airborne dust during the construction process in potentially contaminated areas. As a minimum, standard dust control techniques shall be employed where heavy equipment and the public will be traveling. These may include techniques such as watering-down the site or spreading hygroscopic salts.

Unanticipated Contamination

If the Contractor encounters previously undiscovered contamination or potentially hazardous conditions related to contamination, the Contractor shall immediately suspend work and secure the area. The Contractor will then notify the Resident immediately. These potentially hazardous conditions include, but are not limited to, buried containers, drums, tanks, “oil saturated soils”, strong odors, or the presence of petroleum sufficient to cause a sheen on groundwater, Urban Fill (soil matrix that may include brick, concrete, wood, wood ash, coal, coal ash, boiler ash, glass, plastic, metal, and/or demolition debris). The area of potential hazard shall be secured to minimize health risks to workers and the public and to prevent the release of contaminants into the environment. The source of any suspected contamination shall be evaluated by the Resident (or MaineDOT’s -ENV representative). As appropriate, the Resident will notify the MDEP’s Response Services Unit in Portland and MaineDOT-ENV. The Biddeford Fire Department must also be notified prior to removal of buried storage tanks and associated piping. The Contractor will evaluate the impact of the hazard on construction, amend the HASP if necessary, and with the Resident’s approval, recommence work in accordance with the procedures of this Special Provision.

Method of Measurement

There will be no measurement for identification and environmental screening of contaminated soil material (this will be done by the Resident or MaineDOT-ENV representative).

Measurement for the development of a Health and Safety Plan (HASP) and providing health and safety equipment and personnel shall be by lump sum.

Measurement of the off-site treatment or disposal of Surplus Group 2 and all Group 3 soils will be by the ton of Special Excavation

There will be no measurement for construction of a Temporary Secured Stockpile Area. Construction of a Temporary Secured Stockpile Area, if necessary, is considered incidental to project construction. There will be no measurement for hauling Surplus Group 2 material or Group 3 soils to the Temporary Secure Stockpile area or placement and removal of Surplus Group 2 or Group 3 soils in or out of the Temporary Secure Stockpile area. All hauling and any subsequent management/placement of contaminated soils are considered incidental to project construction.

There will be no measurement for additional laboratory testing of contaminated soil that is required by the landfill or treatment facility. Testing is incidental to the disposal of Special Excavation.

Measurement for the following items shall be according to Subsection 109:04 ("Change Order"/Force Account): any necessary contaminated water holding tank(s); and treatment or disposal of any contaminated groundwater.

Basis of Payment

There will be no payment for the identification and environmental screening of contaminated soil material (this will be completed by the Resident or MaineDOT-ENV representative).

Payment for the development of a Health and Safety Plan (HASP) and providing health and safety equipment and personnel shall be by the lump sum (L.S.).

Payment for off-site disposal or treatment of contaminated Surplus Group 2 and all Group 3 soils at a MDEP licensed facility shall be by the ton of Special Excavation.

There will be no payment for the construction of the Temporary Secured Stockpile Area or hauling/management/placement of contaminated soils to the Temporary Secured Stockpile Area. The Temporary Secured Stockpile Area shall be considered incidental to project construction.

Payment for the following items shall be according to Subsection 109:04 ("Change Order"/Force Account): any necessary contaminated water holding tank(s); and treatment or disposal of any contaminated groundwater.

Pay Item		Pay Unit
203.2312	Health and Safety Plan (HASP)	Lump Sum
203.2333	Disposal/Treatment of Special Excavation	Ton

SECTION 401 - HOT MIX ASPHALT PAVEMENT

401.01 Description The Contractor shall furnish a uniformly blended, homogeneous mixture placed as one or more courses of Hot Mix Asphalt Pavement (HMA) using a single approved design for each item on an approved base in accordance with the contract documents and in reasonably close conformity with the lines, grades, thickness, and typical cross sections shown on the plans or established by the Resident. The Department will accept this work under Quality Assurance provisions, in accordance with these specifications and the requirements of Section 106 – Quality, the provisions of AASHTO M 323 except where otherwise noted in sections 401 and 703 of these specifications, and the MaineDOT Policies and Procedures for HMA Sampling and Testing.

401.02 Materials Materials shall meet the requirements specified in Section 700 - Materials:

Asphalt Cement	702.01
Aggregates for HMA Pavement	703.07
RAP for HMA Pavement	703.08
HMA Mixture Composition	703.09

401.03 Composition of Mixtures The Contractor shall compose the Hot Mix Asphalt Pavement with aggregate, Performance Graded Asphalt Binder (PGAB), approved antistrip, warm mix additive, and/or mineral filler if required. HMA shall be designed and tested according to AASHTO R 35 and the volumetric criteria in Table 1. The Contractor shall size, uniformly grade, and combine the aggregate fractions in proportions that provide a mixture meeting the grading requirements of the Job Mix Formula (JMF). Unless otherwise noted in Special Provision 403 - Hot Mix Asphalt Pavement, the design, verification, Quality Control, and Acceptance tests for this mix will be performed at 65 gyrations.

TABLE 1: VOLUMETRIC DESIGN CRITERIA

Design ESAL's (Millions)	Required Density (Percent of G _{mm})			Voids in the Mineral Aggregate (VMA) (Minimum Percent)					Voids Filled with Binder (VFB) (Minimum %)	Fines/Eff. Binder Ratio									
				Nominal Maximum Aggregate Size (mm)															
	N _{initial}	N _{design}	N _{max}	25.0	19.0	12.5	9.5	4.75											
	< 3.0	≤90.5	96.0	≤98.0	13.0	14.0	15.0	16.0			16.0	65-80*	0.6-1.2						
3 to <10	≤89.0																		
> 10																			

*For 9.5 mm nominal maximum aggregate size mixtures, the maximum VFB is 82. For 4.75 mm nominal maximum aggregate size mixtures, the maximum VFB is 84.

The Contractor shall submit a JMF to the Department for each mixture to be supplied. The JMF will be approved by the Department in accordance with the MaineDOT HMA Policies and Procedures for HMA Sampling and Testing Manual. At the time of JMF submittal, the Contractor shall identify and make available the stockpiles of all proposed aggregates at the plant site. There must be a minimum of 150 ton for coarse aggregate stockpiles and 75 ton for fine aggregate stockpiles before the JMF may be submitted. The Contractor shall provide aggregate samples to the Department unless otherwise required. The Contractor shall also make available to the Department the PGAB proposed for use in the mix in sufficient quantity to test the properties of the asphalt and to produce samples for testing of the mixture. The first day's production shall be monitored, and the approval may be withdrawn if the mixture exhibits undesirable characteristics such as checking, shoving or displacement. The Contractor shall be allowed to submit mix changes for a JMF as outlined in the MaineDOT HMA Policies and Procedures for HMA Sampling and Testing Manual: Mix Design Approval Section.

The Contractor shall submit a new JMF for approval each time a change in material source or materials properties is proposed. The same approval process shall be followed. The cold feed percentage of any aggregate may be adjusted up to 10 percentage points from the amount listed on the JMF, however no aggregate listed on the JMF shall be eliminated. The cold feed percentage for RAP may be reduced up to 10 percentage points from the amount listed on the JMF and shall not exceed the percentage of RAP approved in the JMF or for the specific application under any circumstances.

401.031 Warm Mix Technology The Contractor may place Hot Mix Asphalt Pavement produced with an accepted WMA technology if approved by the Department. Methods or technologies shall generally be at the Contractor's option, but will be limited to proven, Agency and Industry accepted practice. Mixture production, placement and volumetric testing details, including temperatures, shall be included in the project specific QCP, and submitted to the Department for approval prior to any work.

401.04 Temperature Requirements The temperature of the mixture shall conform to the tolerances in Table 2 as measured at the truck at the mixing plant and at the paver unless otherwise authorized by the Department.

TABLE 2: ALLOWABLE TEMPERATURE RANGES

PGAB Grade(s)	Temperature Range (°F)
PG58-28 / PG64-28	275-325
PG64E-28 / PG70E-28	285-335

401.05 Performance Graded Asphalt Binder The Contractor shall utilize either a PG58-28, PG64-28, PG64E-28, PG70E-28, or other grade as specified in the 403 Special Provision. The Contractor shall utilize a PG64-28 if no liquid grade is specified within the 403 Special Provision.

401.06 Weather and Seasonal Limitations The State is divided into two paving zones as follows:

- a. Zone 1 Areas north of US Route 2 from Gilead to Bangor and north of Route 9 from Bangor to Calais.
- b. Zone 2 Areas south of Zone 1 including the US Route 2 and Route 9 boundaries.

TABLE 3: SEASONAL AND TEMPERATURE LIMITATIONS

TABLE 3. SEASONAL AND TEMPORARY LIMITATIONS			
Description	Zone 1 Allowable Placement Dates	Zone 2 Allowable Placement Dates	Minimum Ambient Air Temperature
HMA Surface Course greater than or equal to 1” (Travelway)	May 1 to Saturday following October 1	April 15 to Saturday following October 15	50°F
HMA Surface Course less than 1” (Travelway)	May 15 to Saturday following September 15	May 15 to Saturday following October 1	
HMA Surface Course less than 1” considered to be “Night Work” (Travelway)	June 1 to the Saturday following September 1		
HMA Surface Course less than 1” (Shoulders)	May 15 to the Saturday following October 15		
HMA for Surface Course on Bridge Decks	May 1 to Saturday following October 1	April 15 to Saturday following October 15	
HMA for Base or Shim Course on Bridge Decks	April 15 to November 15		
HMA for use other than Travelway Surface Course (Shoulders greater than or equal to 1”, Intermediate, Base, Shim)	April 15 to November 15		40°F
HMA for curb, driveways, sidewalks, islands, or other incidentals	N/A		
With Use of Approved Warm Mix Technology as Compaction Aid (Surface Course Ambient Air Temperature Allowances)			
HMA Surface Course greater than or equal to 1” (Travelway)	May 1 to Saturday following October 1	April 15 to Saturday following October 15	Begin at 50°F and pave down to 45°F
HMA Surface Course less than 1” (Travelway)	May 15 to Saturday following October 1	May 15 to Saturday following October 15	
HMA Surface Course less than 1” considered to be “Night Work” (Travelway)	June 1 to the Saturday following September 15		
HMA Surface Course less than 1” (Shoulders)	May 15 to the Saturday following October 15		
With Use of Approved Warm Mix Technology as Compaction Aid (Seasonal Limitation Extensions)			
HMA Surface Course greater than or equal to 1” (Travelway)	Saturday following October 1 to Saturday following October 15	Saturday following October 15 to Saturday following October 29	50°F
HMA Surface Course less than 1” (Shoulders)	Saturday following October 15 to Saturday following October 29		
HMA for use other than Travelway Surface Course (Shoulders greater than or equal to 1”, Intermediate, Base, Shim)	April 15 to Saturday following November 15		35°F

1. Shoulders paved with the travelway pass shall meet travelway ambient air temperatures

2. Refer to the 461 SP for UTBWC for seasonal and temperature requirements.

3. The minimum ambient air temperature for placement of HMA for curbs, driveways, sidewalks, islands, and other incidental work shall be 40°F, regardless of whether the mixture is produced using an approved WMA technology.

The ambient air temperature shall be determined by an approved thermometer placed in the shade at the paving location. Unless otherwise specified, the Contractor shall not place Hot Mix Asphalt Pavement on a wet or frozen surface regardless of the ambient air temperature. The Hot Mix Asphalt Pavement produced with an approved WMA technology shall meet the requirements of section 401.04 - Temperature Requirements, unless otherwise approved by the Department. For the purposes of this Section, the traveled way includes truck lanes, ramps, approach roads and auxiliary lanes.

401.07 Hot Mix Asphalt Plant

401.071 General Requirements HMA plants shall conform to AASHTO M 156, Standard Specification for Requirements for Mixing Plants for Hot-Mixed, Hot-Laid Bituminous Paving Mixtures with exception of Section 4.2.1, 4.2.2, 4.3.4, 4.3.5, and 4.12.2.

All HMA plants will be inspected annually by the Department prior to producing HMA for Department projects. The Contractor shall provide the Department at least 72 hours' notice that the plant is ready for inspection. The Contractor shall equip the plant with ladders and platforms that are accessible and safe to obtain samples of PGAB, aggregate and mix from the relevant tanks, collector belts and haul units. Silo storage time of mixtures shall not exceed 36 hours.

401.072 Stockpiles The Contractor shall provide sufficient space for stockpiles and maintain a minimum of supply for 2 days production of all aggregate products used in MaineDOT approved mix designs currently under production. A minimum stockpile supply of 100 ton (70 yards) shall be maintained at all times. The Contractor shall construct stockpiles to prevent intermingling and to minimize segregation. All stockpiles used in MaineDOT mixes shall be identified with weatherproof signs at least 12" high and 24" wide, with reflective lettering at least 2" high.

401.073 Cold Feeds Cold Feed Bins will have bin dividers to keep aggregate products separated. Adequate means must be provided for obtaining samples of the combined flow of all Cold feed bins.

401.074 Dryer Dryer shall be capable of heating aggregate to required mixing temperature and shall be in good operation and condition. Dryer shall be subject to annual inspection prior to start-up. The Contractor shall dry and heat the aggregates for the HMA to the required temperature, adjusting flames to avoid damaging the aggregates. The Contractor shall provide the Department a minimum period of 72 hours to inspect the dryer and provide at least 24 hours' notice that the dryer is ready for inspection.

401.075 Asphalt Binder The plant shall include a heating system and insulation to maintain the asphalt binder at a uniform temperature for proper mixing and compaction. A thermometer shall be provided in the asphalt binder line. No direct flame may come in contact with tank. A sampling valve shall be provided in the circulation line downstream of any binder additive used unless otherwise approved by the Department. The Contractor shall drain down the asphalt as low as safely possible in any tank that will be switched to a new source or grade prior to adding the new PGAB.

401.076 Additives Additives (WMA, anti-strip, etc.) introduced into the binder at the HMA plant shall be introduced per the supplier's recommendations and shall be approved by the Department. The system for introducing additives shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all production rates and batch sizes. Additive introduction systems shall be controlled by a proportioning device to the amount required on the JMF plus or minus 0.1% of the target. Additive introduction systems shall be interlocked with the plant and the recordation (batch tickets or drum recordation) shall display the additive and the weight and percentage added. A means for sampling the PG binder with additive introduced will be provided. The sampling point shall be after the additive is mixed with the PGAB before entering the drum or mixer unit.

401.077 Batch Plants

Hot Bins Hot bins shall provide uniform continuous operation and be in good working condition. The plant shall be able to provide samples of hot bins upon request. Overflow shall be provided for each hot bin. Hot bin gates shall close without leaking. Bin walls must prevent intermingling between bins. Each hot bin shall have low level indicators which will alert the operator when the bin is empty.

Mixer Unit Clearance between blades and liner shall be 1" maximum, unless the aggregate exceeds 1 ¼" then the clearance shall be 1 ½". The spray bar length shall be at least 75% of the mixer length. The mixer unit shall be a twin pug mill-type mixer capable of mixing continuously for at least 45 seconds after all materials have been introduced into the mixer. The blades in the mixer shall be capable of producing a homogenous mixture. If the mixer is not enclosed, it shall be equipped with an adjustable hood to prevent loss of dust by dispersion. The mixer unit shall be subject to annual inspection prior to removal of safety features and being readied for service. The Contractor shall provide the Department the opportunity to inspect the mixer unit prior to the annual inspection. The Contractor shall provide the Department a minimum period of 72 hours to inspect the mixer unit and provide at least 24 hours' notice that the mixer unit is ready for inspection.

Mineral Filler Mineral filler and fiber shall utilize separate bins and feed systems to store and proportion the required quantity into the mixture. The feed systems shall be accurate to no more than 10% of the required weight with a convenient and accurate means of calibration. Mineral filler and fiber shall be introduced in the weigh hopper and uniformly distributed prior to the injection of the asphalt binder.

Automation The HMA batch plant shall automatically batch, mix and discharges mixes. The batch plant shall accurately proportion the various materials in the proper order by weight. The entire batching and mixing cycle shall be continuous and shall not require any manual operations. The batch plant shall use auxiliary interlock circuits to trigger an audible alarm whenever an error exceeding the acceptable tolerance occurs. Along with the alarm, the printer shall print an asterisk on the delivery slip in the same row containing the out-of-tolerance weight. The automatic proportioning system shall be capable of consistently delivering material within the full range of batch sizes. When RAP is being used, the plant must be capable of automatically compensating for the moisture content of the RAP.

The HMA batch plant shall be operated within the following tolerances:

Each aggregate component	+/- 1.5% cumulative, per bin
Mineral Filler	+/- 0.5%
Bituminous Material	+/- 0.1%
Zero return (aggregate)	+/- 0.5%
Zero Return (AC)	+/- 0.1%
Additives	+/- 0.1%

Recordation All plants shall be equipped with an approved digital recording device. The printer shall mark any weight on the ticket that exceeds tolerance. The delivery slip shall contain information required under Section 108.1.3 - Provisions Relating to Certain Measurements, Mass and paragraphs a, b, and c of Section 401.078.

401.078 Drum Plants

Cold Feeds and Delivery System A scalper screen shall be used to remove oversize material. The accuracy of the belt scale shall be within +/- 1.0% of the actual weight being measured. The plant shall be capable of correcting for aggregate moisture. Mineral filler and fiber shall utilize separate bin(s) and feeder systems to store and proportion the required quantity into the mixture. The feed systems shall be accurate to no more than +/- 10% of the required weight with a convenient and accurate means of calibration. The plant shall be equipped with a single control to change all feed rates. Mineral filler and fiber shall be introduced such that dry mixing is accomplished no less than 18 inches prior to the injection of the asphalt binder. The Contractor shall ensure that the mineral filler does not become entrained in the exhaust stream of the dryer.

Binder System The flow of asphalt binder shall adjust automatically with dry aggregate weights. The Department will conduct an asphalt flow meter check annually and after each change of plant location. The flow meter check must be performed prior to producing mix for Department projects. The plant must be configured to provide a convenient means to check accuracy of the flow meter. The flow meter will be considered accurate if the measured weight is within 1% of actual weight.

Drum Mixer The plant shall be equipped with a diversion system where mix can be diverted at startup/shutdown and any time. The drum mixer shall be subject to annual inspection prior to removal of safety features and being readied for service. The Contractor shall provide the Department a minimum period of 72 hours to inspect the drum mixer while providing at least 72 hours' notice that the drum mixer is ready for inspection.

Recordation An approved automatic ticket printer system shall be used to print delivery slips. The requirements for delivery slips for payment of materials measured by weight, as given in the following Sections, shall be waived: 108.1.3 a., 108.1.3 b., 108.1.3 c., and 108.1.3 d. The automatic printed ticket will be considered as the Weight Certificate. The dry aggregate weights and binder flow shall be recorded as well as mineral filler and all binder additives. The recordation of materials shall be printed a minimum of every ten minutes while in production.

The requirements of Section 108.1.3 f. - Delivery Slips, shall be met by the delivery slip printed by the automatic system, which accompanies each truckload, except for the following changes:

- The quantity information required shall be individual weights of each batch or total net weight of each truckload.
- Signatures (legible initials acceptable) of Weighmaster (required only in the event of a malfunction as described in 401.074 c.).
- The MaineDOT designation for the JMF.

401.079 Scales and Weight Checks Scales shall meeting the requirements of Section 108 - Payment. The scales shall be inspected and sealed by the State Sealer (or approved alternative) as often as the Department deems necessary to verify their accuracy. Plant scales shall be checked prior to the start of the paving season, and each time a plant is moved to a new location. Subsequent checks will be made as determined by the Resident. The Contractor will have at least ten 50 pound masses for scale testing at batch plants. At Contractor's option, the Contractor can use one single test weight that has been checked on sealed scales. This weight shall be 1,000 lbs. or greater. At least twice during each 5 days of production either of the following checks will be performed:

- a. A loaded truck may be intercepted and weighed on a platform scale that has been sealed by the State Sealer of Weights and Measures within the past 12 months. The inspector will notify the producer to take corrective action on any discrepancy over 1.0%. The producer may continue to operate for 48 hours under the following conditions.
 1. If the discrepancy does not exceed 1.5%; payment will still be governed by the printed ticket.
 2. If the discrepancy exceeds 1.5%, the plant will be allowed to operate as long as payment is determined by truck platform scale net weight.

If, after 48 hours the discrepancy has not been addressed and reduced below 1.0%, then plant operations will cease. Plant operation may resume after the discrepancy has been brought within 1.0%.

- b. Where platform scales are not readily available, a check will be made to verify the accuracy and sensitivity of each scale within the normal weighing range and to assure that the interlocking devices and automatic printer system are functioning properly. If platform scales are not readily available, a weight with a known mass-verified and sealed annually by a licensed scale company, may be used by hanging weight from silo or surge hopper, at lower middle and upper third levels upon request to verify scale accuracy.
- c. In the event of a malfunction of the automatic printer system, production may be continued without the use of platform truck scales for a period not to exceed the next two working days, providing total weights of each batch are recorded on weight tickets and certified by a Licensed Public Weighmaster.

401.08 Hauling Equipment Units hauling HMA shall have tight, clean, and smooth metal bodies, which have been thinly coated with a small amount of approved release agent to prevent the mixture from adhering to the bodies. Release agents that dissolve or strip asphalts, including diesel fuel, will not be allowed.

All mix haul units shall have a cover of water repellent material capable of heat retention, which completely covers the mixture. The cover shall be securely fastened on the truck, unless unloading. Haul units shall have an opening on both sides near the midpoint of the body, at least 12 in above the bed, which will accommodate a thermometer stem.

401.09 Pavers The Contractor shall use pavers meeting the requirements of this section unless otherwise authorized by the Department. Pavers shall meet the requirements of Table 4: Paver Requirements.

TABLE 4: PAVER REQUIREMENTS

Use	Paver Requirement
Traveled Way & Auxiliary Lanes	Equipped with a 10 ft minimum main screed with activated extensions. The minimum tractor weight shall be 30,000 pounds.
	Equipped with automatic grade and slope controls that automatically adjust the screed and increase or decrease the layer thickness to compensate for irregularities in the preceding course. The controls shall maintain the proper transverse slope and be readily adjustable so that transitions and superelevated curves can be properly paved. The controls shall operate from a fixed or moving reference such as a grade wire or ski type device (floating beam) with a minimum length of 30 ft, a non-contact grade control with a minimum span of 24 ft, except that a 40 ft reference shall be used on interstate and divided highway projects. Unless approved by the Department, a single sensor “joint matcher” shall not be permitted.
All HMA Placement	Self-contained, self-propelled units of sufficient class and size to place Hot Mix Asphalt Pavement in full lane widths specified in the contract on the main line, shoulder, or similar construction.
	Equipped with a free-floating activated heated main screed with activated extensions. Pavers with extendible screeds shall have auger extensions and tunnel extenders as per the manufacturer’s recommendations, a copy of which shall be available if requested.
	Equipped with a receiving hopper with sufficient capacity for a uniform spreading operation and a distribution system to place the mixture uniformly, without segregation in front of the screed.
	Operated in such a manner as to produce a visually uniform surface texture and a thickness within the requirements of Section 401.11 - Surface Tolerances. The screed assembly shall produce a finished surface of the required evenness and texture without tearing, shoving, or gouging the mixture.
	Auger and tunnel extensions will be required as needed to complete the work. The distance between the auger/tunnel and the paver screed end-gate will be as specified by the manufacturer, but shall not exceed 24 inches.

The Contractor shall have the paver at the project site sufficiently before the start of paving operations to be inspected and approved by the Department. The Contractor shall repair or replace any paver found worn or defective, either before or during placement, to the satisfaction of the Department. Pavers that produce an unevenly textured or non-uniform mat will be repaired or replaced before continuing to place HMA on MaineDOT projects. On a daily basis, the Contractor shall perform density testing across that mat as detailed in Section 401.191 Quality Control - Method A, B & C.

401.10 Rollers Rollers shall be static steel, pneumatic tire, oscillatory, or approved vibrator type. Rollers shall be in good mechanical condition, capable of starting and stopping smoothly, and be free from backlash when reversing direction. Rollers shall be equipped and operated in such a way as to prevent the picking up of hot mixed material by the roller drums or tires. Crushing of the aggregate or displacement of the HMA during rolling will not be permitted. Any HMA Pavement that becomes loose, broken, contaminated, shows an excess or deficiency of PGAB, or is in any other way defective shall be removed and replaced at no additional cost with fresh material which shall be immediately compacted to conform to the adjacent area.

The Contractor shall repair or replace any roller found to be worn or defective, either before or during placement, to the satisfaction of the Department. Rollers that produce grooved, unevenly textured or non-uniform mat will be repaired or replaced before continuing to place HMA. The type of rollers to be used and their relative position in the compaction sequence shall generally be the Contractor's option unless otherwise specified in the contract, provided specified density is attained and with the following requirements:

- a. On variable-depth courses, the first lift of pavement over gravel, reclaimed pavement, on irregular or milled surfaces, or on bridges, at least one roller shall be 16 ton pneumatic-tired. Pneumatic-tired rollers shall be equipped with skirting to minimize the pickup of HMA materials from the paved surface. When required by the Department, the roller shall be ballasted to 20 ton.
- b. Compaction with a vibratory or steel wheel roller shall precede pneumatic-tired rolling, unless otherwise authorized by the Department.
- c. Vibratory rollers shall not be operated in the vibratory mode on bridge decks.
- d. Any method, which results in cracking or checking of the mat, will be discontinued and corrective action taken.
- e. The use of an oscillating steel roller shall be required to compact all mixtures placed on bridge decks.

The maximum operating speed for a steel wheel or pneumatic roller shall not exceed the manufacturer's recommendations, a copy of which shall be available if requested.

401.11 Surface Tolerances The Department will check the following surface tolerances:

- a. Longitudinally: The pavement surface profile shall be free of deviations in excess of $\pm \frac{1}{4}$ inches from the required pavement surface profile grade. To verify the surface tolerance a straight plane shall be established using 16 foot straight edge or a taught string line placed parallel to the direction of travel and checked continuously across the width of the lane.
- b. Transversely: The pavement surface profile shall be free of deviations in excess of 0 inches below and $\frac{1}{4}$ inches above the required cross-sectional profile grade. To verify the surface tolerance a straight plane shall be established using a 10 foot straight edge or taught string line placed perpendicular to the direction of travel and checked continuously along the length of the lane.

The Contractor shall correct defective areas by removing defective work and replacing it with new material as directed by the Department. The Contractor shall furnish a 10 foot straightedge for the Department's use.

401.12 Preparation of Existing Surface The Contractor shall thoroughly clean the surface upon which Hot Mix Asphalt Pavement is to be placed of all objectionable material. When the surface of the existing base or pavement is irregular, the Contractor shall bring it to uniform grade and cross section. All surfaces shall have a tack coat applied prior to placing any new HMA course.

When covering portland cement concrete surfaces (concrete slabs, concrete backfill around utilities or as curb fill) the concrete shall be placed to a depth that allows for a minimum of 3 inches of a hot mix asphalt pavement over the concrete. The 3 inches of pavement may be comprised of base, shim and surface layer as may be specified in Special Provision 403. A triple application of tack coat, as a

minimum, shall be applied on concrete surfaces prior to any hot mix pavements being placed over the concrete.

Tack coat shall conform to the requirements of Section 409 – Bituminous Tack Coat, Section 702 – Bituminous Material, and all applicable sections of the contract.

401.13 Spreading and Finishing In areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impracticable, the Contractor shall spread, rake, and lute the HMA with hand tools to provide the required compacted thickness. Release agents that dissolve or strip asphalts, including diesel fuel, will not be allowed. On roadways with adjoining lanes carrying traffic, the Contractor shall place each course per the conditions in Table 5, unless otherwise noted by the Department in Section 403 - Hot Mix Asphalt Pavement.

TABLE 5: PLACEMENT CONDITIONS FOR ADJOINING LANES

Depth (at centerline)	Placement Conditions
Vertical Longitudinal Joint	
¾" and less (incl. shim)	The Contractor may place the HMA course over the full single travel lane width for each production day.
1" to 1 ¼"	The Contractor may place the HMA course over the full single travel lane width for each production day and will be required to place a matching course of HMA over the adjacent section of travel lane before weekend or holiday suspension. A maximum unmatched centerline joint of the project's 1 days' average production will be permitted over the weekend.
1 ½" to 2"	The Contractor may place the HMA course over the full single travel lane width for each production day and will be required to place a matching course of HMA over the adjacent section of travel lane before the end of the following calendar day.
Greater than 2"	The Contractor shall place each course over the full width of the traveled way section being paved that day.
Notched-Wedge Longitudinal Joint	
1 ½" to 2"	The Contractor may place the HMA course over the full single travel lane width for each production day and will be required to place a matching course of HMA over the adjacent section of travel lane before weekend or holiday suspension. A maximum unmatched centerline joint of the project's 1 days' average production will be permitted over the weekend.
Greater than 2"	The Contractor may place the HMA course over the full single travel lane width for each production day and will be required to place a matching course of HMA over the adjacent section of travel lane before the end of the following calendar day.
Longitudinal Joints (<45 mph) *	
Greater than 2"	With use of a Notch-Wedge device, the Contractor may place the HMA course over the full single travel lane width for each production day and will be required to place a matching course of HMA over the adjacent section of travel lane before weekend or holiday suspension. A maximum unmatched centerline joint of the project's 1 days' average production will be permitted over the weekend.

* Longitudinal joint allowances for segments under 45 mph will only be permitted if the segment length is continuous for one mile or greater or the total length of the project is one mile or less.

Constructed wedge joints that degrade or break off will not qualify for the open joint duration as described above. The impacted area shall be matched up within 48 hours of notification by the Department. Prior to matching, the Contractor shall trim off the impacted area and construct a vertical joint. Failure to comply will result in an automatic Traffic Control Violation as per section 652.8.

The Contractor shall place the specified course over the full width of the mainline traveled way being paved, regardless of use, depth, or longitudinal joint type prior to Memorial Day, July 4th, Labor Day, paving suspensions exceeding three days, or other dates as specified by special provision.

The Contractor shall install additional warning signage that clearly defines the centerline elevation differential hazard. Unless otherwise addressed in the contract, the Contractor shall install additional centerline delineation such as a double application of raised pavement markers at 100 foot intervals, or temporary painted line. For any exposed vertical edge between the shoulder and traveled way, at a minimum, the use of temporary painted line, or RPMs placed along the edge of traveled way at 200 foot intervals is required. The Traffic Control Plan shall be amended to include this option and the additional requirements. All signs and traffic control devices will conform to Section 719.01, and Section 652, and will be installed prior to the work, at a maximum spacing of 0.50 mile for the entire length of effected roadway section. If this option is utilized, all additional signing, labor, traffic control devices, or incidentals will not be paid for directly, will be considered incidental to the appropriate 652 items.

When covering a portland cement concrete surface (concrete slabs, concrete backfill around utilities or as curb fill) a minimum of 3 inches of HMA pavement will be required over the concrete.

HMA shall be installed to match the surrounding pavement depth around utilities, structures, or when placing HMA as curb fill, up to 6 inches total unless otherwise directed in the project documents.

401.14 Hot Mix Asphalt Placement on Bridge Decks Hot mix asphalt pavement placed on bridges shall also conform to Section 508.04 and the following requirements:

- a. The minimum production and placement temperature for the Hot Mix Asphalt placed over membrane shall conform to the manufacturer's recommendations.
- b. The bottom course shall be placed with an approved rubber mounted paver of such type and operated in such a manner that the membrane waterproofing will not be damaged in any way.
- c. The top course shall not be placed until the bottom course has cooled sufficiently to provide stability.
- d. The Contractor will not be required to cut sample cores from the compacted pavement on the bridge deck, unless otherwise directed by Special Provision.
- e. After the top course has been placed, the shoulder areas shall be sealed 3 ft wide with two applications of an emulsified bituminous sealer meeting the requirements of Section 612.03 - Sealing and Section 702.12 - Emulsified Bituminous Sealing Compound. The first application shall be pre-mixed with fine, sharp sand, similar to mortar sand, as needed to fill all voids in the mix in the area being sealed. The second application may be applied without sand. The sealer shall be carried to the curb at the gutter line in sufficient quantity to leave a bead or fillet of material at the face of the curb. The area to be sealed shall be clean, dry and the surface shall be at ambient temperature. The furnishing and applying of the required quantity of sealer for the bridge shoulder areas shall be incidental to placing the hot mix asphalt pavement.
- f. The area between the edge of the membrane and the vertical surface of bridge curbing and concrete bridge headers shall be completely sealed with hot-applied asphaltsealant material, meeting the requirements of Type 4 or mastic crack seal. Sealant shall be applied to form a complete seal between the membrane and the vertical surface and shall extend up the vertical surface to within ½ inch of the top of the HMA wearing surface. This work shall be considered incidental to the contract pavement items unless 508 membrane items are included in the contract.

401.15 Compaction Immediately after the Hot Mix Asphalt Pavement has been spread, struck off, and any surface irregularities adjusted, the Contractor shall thoroughly and uniformly compact the HMA by rolling.

The Contractor shall roll the surface when the mixture is in the proper condition and when the rolling does not cause undue displacement, cracking, or shoving. The Contractor shall prevent adhesion of the HMA to the rollers or vibrating compactors without the use of fuel oil or other petroleum-based release agents. Solvents designed to strip asphalt binders from aggregates will not be permitted as release agents on equipment, tools, or pavement surfaces.

The Contractor shall immediately correct any displacement occurring as a result of the reversing of the direction of a roller or from other causes to the satisfaction of the Department. Any operation other than placement of variable depth shim course that results in breakdown of the aggregate shall be discontinued. Any new pavement that shows obvious cracking, checking, or displacement shall be removed and replaced for the full lane width as directed by the Resident at no cost to the Department.

Along forms, curbs, headers, walls, manhole and catch basin structures, and other places not accessible to the rollers, the Contractor shall thoroughly compact the HMA with mechanical vibrating compactors. The Contractor shall only use hand tamping in areas inaccessible to all other compaction equipment. On depressed areas, the Contractor may use a trench roller or cleated compression strips under a roller to transmit compression to the depressed area.

Any HMA that becomes unacceptable due to cooling, cracking, checking, segregation or deformation as a result of an interruption in mix delivery shall be removed and replaced with material that meets contract specifications at no cost to the Department.

For all items requiring pavement density testing, the Contractor shall cut 6-inch diameter cores at no additional cost to the Department by the end of the working day following paving. Cores shall be cut such that the nearest edge at least 9 inches from any joint. Pre-testing of the cores will not be allowed. If the Contractor and the Department mutually determine that a core is damaged, the Contractor shall cut new core(s) at the same offset and within 3 ft of the initial sample. The Contractor and the Department will mutually determine if underlying material is adhered to the core and if so will mark the core at the point where sawing is needed. The Department will place the cores in a secure container and the Contractor shall transport the cores to the designated MaineDOT lab. The cores will be saw cut by the Department to remove underlying layers. No recuts are allowed at a test location after the core has been tested.

On all sections of overlay with wearing courses designed to be 1 in or less in thickness, there shall be no pay adjustment for density otherwise noted in Section 403 - Hot Mix Asphalt Pavement. For overlays designed to be 1 in or less in thickness, density shall be obtained by the same rolling train and methods as used on mainline travelway surface courses with a pay adjustment for density, unless otherwise directed by the Department.

There shall be no pay adjustment for density on shoulders unless otherwise noted in Section 403 - Hot Mix Asphalt Pavement. Density for shoulders shall be obtained by the same rolling train and methods as used on mainline travelway, unless otherwise directed by the Department. Efforts to obtain optimum compaction will not be waived by the Department unless it is apparent during construction that local conditions make densification to this point detrimental to the finished pavement surface course.

401.16 Joints The Contractor shall construct wearing course transverse and longitudinal joints in such a manner that minimum tolerances shown in Section 401.11 - Surface Tolerances are met when measured with a straightedge. The paver screed shall maintain a uniform head of HMA during transverse and longitudinal joint construction. The HMA shall be free of segregation and meet temperature requirements outlined in Section 401.04. Transverse joints of the wearing course shall be straight and neatly trimmed. The Contractor may form a vertical face exposing the full depth of the course by inserting a header, by breaking the bond with the underlying course, or by cutting back with hand tools. The Contractor shall apply a coating of emulsified asphalt immediately before paving all joints to the vertical face and 3 in of the adjacent portion of any pavement being overlaid except those formed by pavers operating in echelon. The Contractor shall use an approved spray apparatus designed for covering a narrow surface. The Department may approve application by a brush for small surfaces, or in the event of a malfunction of the spray apparatus, but for a period of not more than one working day.

Where pavement under this contract joins an existing pavement, or when the Department directs, the Contractor shall cut the existing pavement along a smooth line, producing a neat, even, vertical joint. The Department will not permit broken or raveled edges. The cost of all work necessary for the preparation of joints is incidental to related contract pay items. Longitudinal joints shall be generally straight to the line of travel and constructed in a manner that best ensure joint integrity. Methods or activities that prove detrimental to the construction of straight, sound longitudinal joints will be discontinued.

The Contractor may utilize an approved notched wedge joint device on all HMA layers 1 ½ inches in depth or greater. A notched wedge joint shall be constructed as shown in Figure 1 using a device that is attached to the paver screed and is capable of independently adjusting the top and bottom vertical notches.

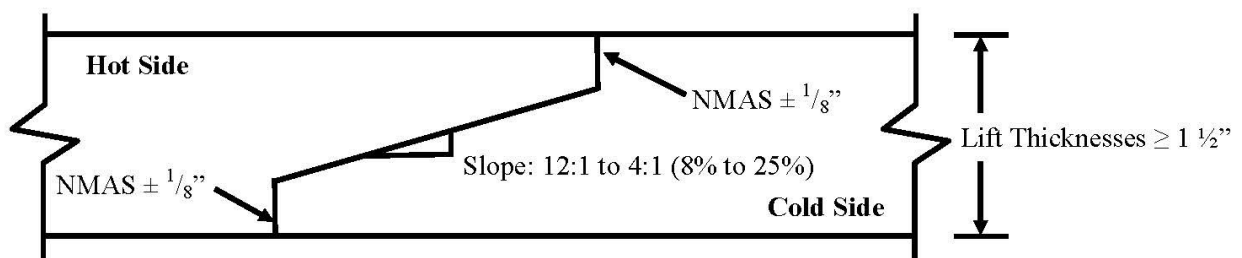


FIGURE 1: Notched Wedge Joint

Notes

1. An emulsified tack coat shall be applied to the vertical edges and the wedge surface so that the total rate is 0.05 G/SY plus the normal specified rate prior to placing the adjacent layer. The Contractor may elect to apply the emulsified tack coat in one or multiple passes.
2. Dimensions shown are compacted depths (after rolling is complete).

The Department reserves the right to have centerline cores cut by the Contractor's QC personnel for informational purposes to monitor the density along the joint. Informational cores at the centerline joint will be taken centered over the tapered part of the wedge joint.

Any notched wedge joint constructed areas that become cracked or broken shall be trimmed back to the limits affected prior to placing the adjoining lane. Any materials that become unbound or separated from the wedge or tapered joint section, or contaminated by materials determined by the Department as being detrimental to the construction of a sound construction joint, shall be removed by sweeping, compressed air and lance, or by hand tools as required. This work, if necessary, will not be paid for directly, but shall be considered incidental to the related contract items.

The Contractor shall apply a coating of emulsified asphalt on the vertical and tapered surface of the longitudinal centerline joint immediately before paving if the notched wedge joint device is used.

The total rate of application shall be 0.050 G/SY plus the normal specified tack coat rate. The Contractor shall use an approved spray apparatus designed for covering a narrow surface. The Department may approve application by a brush for small surfaces.

401.17 Hot Mix Asphalt Documentation The Contractor and the Department shall agree on the amount of Hot Mix Asphalt Pavement that has been placed each day. All delivery slips shall conform to the requirements of 401.078.

401.18 Prepave Meeting Prior to placing any mix, the Department and the Contractor shall hold a Pre-paving conference to discuss the paving schedule, source of mix, type and amount of equipment to be used, sequence of paving pattern, rate of mix supply, random sampling, project lots and sublots and traffic control. A copy of the density QC random numbers to be used on the project shall be provided to the Resident. The Departments' random numbers for Acceptance testing shall be generated and on file with the Resident and the Project Manager. All personnel of the Department and the Contractor who have significant information relevant to the paving items shall attend, including the responsible onsite paving supervisor for the Contractor. The Resident will prepare minutes of the conference and distribute them to all attendees. Any requests to revise the minutes must be made to the Resident within 7 Days of Receipt. These minutes will constitute the final record of the Pre-paving conference. On the first day of paving and whenever there is a change in the onsite paving foreman or paving inspector, the Department and the Contractor shall hold an informal onsite meeting to review the minutes of the Pre-paving conference, Project Specific QCP, Plans, Typical, Special Provisions and communication process. This meeting shall be held prior to placing any mix and, at minimum, shall occur yearly for multi-year contracts. The onsite paving supervisor, QCT, Superintendent, Resident and/or paving inspector shall attend.

401.19 Contractor Quality Control – Method A, B, C & D

The Contractor shall operate in accordance with the approved Quality Control Plan (QCP) to assure a product meeting the contract requirements. The Contractor shall not begin paving operations until the Department approves the QCP in writing.

401.191 Quality Control The QCP shall meet the requirements of Section 106.6 – Acceptance and this Section. The QCP shall address any items that affect the quality of the Hot Mix Asphalt Pavement, and shall include the following personnel meeting these minimum requirements:

- a. QCP Administrator – The QCP Administrator must be a full-time employee of or a consultant engaged by the Contractor or paving subcontractor. The QCP Administrator shall have full authority to institute any and all actions necessary for the successful operation of the QCP. The QCP Administrator (or their designee in the QCP Administrator’s absence) shall be available to communicate with the Department at all times.
 - For items accepted under Methods A and B, the QCP Administrator shall be certified as a Quality Assurance Technologist (QAT) by NETTCP.
 - For items accepted under Methods C and D, the QCP Administrator shall be certified by NETTCP as a Quality Assurance Technologist (QAT), Plant Technician, or Paving Inspector.
- b. Process Control Technician(s) (PCT) shall utilize test results and other quality control practices to assure the quality of aggregates and other mix components and control proportioning to meet the JMF(s). The PCT shall inspect all equipment used in mixing to assure it is operating properly and that mixing conforms to the mix design(s) and other Contract requirements, and that delivery slips and plant recordation accurately reflects the mix being produced with all the required information. The QCP shall detail how these duties and responsibilities are to be accomplished and documented, and whether more than one PCT is required. The Plan shall include the criteria to be utilized by the PCT to correct or reject unsatisfactory materials. The PCT shall be certified as a Plant Technician by the NETTCP.
- c. Quality Control Technician(s) (QCT) shall perform and utilize quality control tests at the job site to assure that delivered materials meet the requirements of the JMF(s). The QCT shall inspect all equipment utilized in transporting, laydown, and compacting to assure it is operating properly and that all laydown and compaction conform to the Contract requirements. The QCP shall detail how these duties and responsibilities are to be accomplished and documented, and whether more than one QCT is required. The QCP shall include the criteria utilized by the QCT to correct or reject unsatisfactory materials. The QCT shall be certified as a Paving Inspector by the NETTCP.

The QCP shall detail the coordination of the activities of the Plan Administrator, the PCT and the QCT. The Project Superintendent shall be named in the QCP, and the responsibilities for successful implementation of the QCP shall be outlined.

The QCP shall address any items that affect the quality of the Hot Mix Asphalt Pavement including, but not limited to, the following:

a. General Requirements:

- Job Mix Formulas (JMFs)
- Name of QCP Administrator, and certification number
- Description of corrective action process
- Disposition of defective material
- A procedure to take immediate possession of acceptance samples once released by MaineDOT and deliver said samples to the designated acceptance laboratory.
- Type of release agent to be used on haul units, tools and rollers.
- A note stating that the use of petroleum-based fuel oils, such as diesel or kerosene, or asphalt stripping solvents will not be permitted.

b. Process Control Requirements: Each Hot Mix Asphalt plant shall have a Plant Specific Process Control Plan. At minimum the plan shall include:

- Name of Plant Specific Process Control Technician(s) and certification number(s)
- Hot mix asphalt plant details
- Stockpile Management
- Mixing & transportation
- Silo management and details
- A detailed description of RAP processing, stockpiling and introduction into the plant
- PG Binder management:
 - Tanks and storage (including polymer modified binders if applicable)
 - Binder temperature
 - Sample points
 - Method to ensure mixture contains the specified binder grade
 - Additive introduction details if introduced at the plant
- Testing and inspection plan for control of aggregates and RAP
- Mix Testing and inspection plan

c. Quality Control Requirements – Method A & B:

- Name of Quality Control Technicians(s) and certification number(s)
- Laydown operations
- Longitudinal joint construction including the tacking of all joints.
- Procedures for avoiding paving in inclement weather
- Compaction of shoulders
- Methods to ensure that segregation is minimized
- Procedures to determine the maximum rolling and paving speeds based on best engineering practices and past experience in achieving acceptable pavement smoothness.
- Sequence for paving around drainage structures, under guard rail, around curb, at bridges, intersections, drives and minor approaches to ensure proper compaction, finish, and drainage.

d. Quality Control Requirements – Method C and D:

- Name of QCP Administrator and certification number(s) as specified in Section 401.19.
- Name of Process Control Technicians(s) and certification number(s).
- Name of Quality Control Technicians(s) and certification number(s).
- Anticipated Compaction Temperature Zones for each roller zoneduring placement.
- Mix TMD to be used for density gauge setting for method spec density work
- Procedures for avoiding paving in inclement weather.

The Contractor shall also supply a Laydown Operation Plan that addresses sequence of work, layout of work, longitudinal joint construction, compaction of shoulders, methods to minimize segregation, and procedures to achieve acceptable pavement smoothness.

For each production day, a summary of each day's results, including a daily paving report, summarizing the mixture type, mixture temperature, equipment used, environmental conditions, and the number of roller passes, shall be recorded and signed by the QCT and presented to the Department's representative by 1 PM the following working day.

Unless otherwise noted in Section 403 – Hot Mix Asphalt Pavement, the Contractor shall submit a modified QC Plan every year detailing, how the mix is to be placed, what equipment is to be used, and what HMA plant is to be used for Items covered under the Plan. All mix designs (JMF) shall be approved and verified by MaineDOT prior to use.

The Contractor shall certify the mix and the test results for each item by a Certificate of Compliance.

The Contractor shall have a testing lab at the plant site, equipped with all testing equipment necessary to complete the tests in Table 6. The Contractor shall generate QC sampling random numbers for each approved mix design every year. A copy of the random numbers shall be emailed to the QC.mainedot@maine.gov email address and remain on-file (in print) and be available for inspection at the QC laboratory. The Contractor shall sample, test, and evaluate Hot Mix Asphalt Pavement in accordance with the minimum frequencies per each approved mix design.

TABLE 6: MINIMUM QUALITY CONTROL FREQUENCIES

Test or Action	Frequency	Test Method
Temperature of mix	6 per day at street and plant	-
Temperature of mat	4 per day	-
%TMD (In-Place Density - Surface)	1 per 125 ton	AASHTO T 355 or AASHTO T 343
%TMD (In-Place Density - Base)	1 per 250 ton	AASHTO T 355 or AASHTO T 343
Fines / Effective Binder	1 per 500 ton	AASHTO T 312*
Gradation	1 per 500 ton	AASHTO T 30
PGAB Content	1 per 500 ton	AASHTO T 164 or AASHTO T 308
Voids at N_{design}	1 per 500 ton	AASHTO T 312*
VMA at N_{design}	1 per 500 ton	AASHTO T 312*
Rice Specific Gravity	1 per 500 ton	AASHTO T 209
Percent Fractured Particles	1 per 5,000 ton	AASHTO T 335
Flat and Elongated Particles	1 Per 5,000 ton	ASTM D4791
Fine Aggregate Angularity	1 Per 5,000 ton	AASHTO T 304

The Contractor shall monitor plant production on each approved mix design using running average of three control charts as specified in Section 106 - Quality. Control limits shall be as noted in Table 7 below. The UCL and LCL, shall not exceed the allowable gradation control points for the particular type of mixture as outlined in Table 1 of Section 703.09.

TABLE 7: CONTROL LIMITS

Property	UCL and LCL
Percent Passing 4.75 mm and larger sieves	Target +/- 4.0
Percent Passing 2.36 mm sieve	Target +/- 2.5
Percent Passing 0.075 mm sieve	Target +/- 1.0
PGAB Content	Target +/- 0.25
VMA at N_{design}	LCL = LSL + 0.2
Voids at N_{design}	JMF Target +/- 1.2
Theoretical Maximum Specific Gravity	JMF Target +/- 0.020

The Contractor shall submit all QC test and inspection reports and updated control charts to the Resident and QC.mainedot@maine.gov by email. The reports and updated control charts shall be signed by the appropriate technician and be submitted to the Department by 1:00 P.M. on the next working day, except when otherwise noted in the QCP and approved by the Department.

The Contractor shall also retain splits of the previous 5 QC tests, with QC results enclosed for random selection and testing by the Department. Test results of splits that do not meet the Dispute Resolution

Variance Limits in Table 18 shall trigger an investigation by the MaineDOT Independent Assurance Unit and may result in that lab losing NETTCP certification and the ability to request a dispute [Section 401.50 - Process for Dispute Resolution].

The Contractor shall make density test results, including randomly sampled densities, available to the Department onsite. Summaries of each day's results, including a daily paving report summarizing the mixture type, mixture temperature, equipment used, environmental conditions, and the number of roller passes, shall be recorded and signed by the QCT and provided to the QC.mainedot@maine.gov email address and Resident in writing by 1:00 p.m. the next working day. The Contractor shall fill all holes in the pavement resulting from cutting cores by the Contractor or the Department with a properly compacted, acceptable mixture no later than the following working day. Before filling, the Contractor shall carefully clean the holes and apply a coating of emulsified asphalt. The Contractor may only cut additional cores for verification of the densometer, at a rate not to exceed 3 per day or 2 per 1000 ton placed.

If the Contractor's control chart shows the process for a given mix design to be out of control (defined as a single point outside of the control limits on the running average of three chart) on any property listed in Table 7: Control Limits, the Contractor shall notify the Resident of all affected projects in writing of the corrective action by 1:00 PM the next working day. The written description shall detail what action is being taken by the Contractor to bring the property in question back within control limits. Subsequent quality control results are expected to demonstrate an improvement and regression towards the aim. The Department reserves the right to take action, to include cessation of production, in the case of repeated results outside the Table 7 control chart control limits.

On a daily basis, or whenever equipment type or sequence is modified, the Contractor shall perform density testing across the mat being placed, prior to being compacted by equipment at 12 in intervals. If the density values vary by more than 2.0% from the mean, the Contractor shall make adjustments to the screed until the inconsistencies are remedied. Failure to replace or repair defective placement equipment may result in a letter of suspension of work and notification of a quality control violation resulting in possible monetary penalties as governed by Section 106 – Quality.

The Contractor shall cease paving operations whenever one of the following occurs:

- a. The quality level for density using all quality control tests for the current Lot is less than 60 PWL.
- b. The Coarse Aggregate Angularity or Fine Aggregate Angularity value falls below the requirements of Section 703.07, Table 3: Aggregate Consensus Properties Criteria for the design traffic level.
- c. The Flat and Elongated Particles value exceeds 10% by ASTM D4791.
- d. There is any visible damage to the aggregate due to over-densification other than on variable depth shim courses.
- e. The Contractor fails to follow the approved QCP.

The Contractor shall notify the Resident in writing as to the reason for shutdown, as well as the corrective action, by the end of the workday. Failure to do so will be treated as a second incident under 106.4.6 QCP Non-compliance. The Department will only allow the continuation of paving operations when it is satisfied the corrective action will result in an improvement in results. The Department may require the submittal of a passing verification sample to allow further production. The Department

retains the exclusive right, with the exception of the first day's production of a new JMF, to determine whether the resumption of production involves a significant change to the production process. If the Department so determines, then the current lot will be terminated, a pay factor established, and a new lot will begin.

The Contractor may utilize innovative equipment or techniques not addressed by the Contract documents to produce or monitor the production of the mix, subject to approval by the Department.

401.192 Quality Control and Acceptance for Item 403.209 Hot Mix Asphalt, 9.5 mm Nominal Maximum Size, (sidewalks, drives, islands & incidentals) and visual acceptance items Item 403.209 will be accepted under method D acceptance unless otherwise noted in the 403 special provision. A QCP, certified QC personnel, or Prepave Meeting shall not be required for Item 403.209 - Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (sidewalks, drives, islands & incidentals) when accepted under either visual acceptance or under Method D acceptance unless otherwise specified in the 403 SP. An approved JMF shall be provided to the Resident prior to placement.

401.20 Acceptance Method A & C These methods utilize Quality Level Analysis and pay factor specifications. For Hot Mix Asphalt Pavement designated for acceptance under Quality Assurance provisions, the Department will sample once per subplot on a statistically random basis, test, and evaluate in accordance with the Acceptance Properties as outlined in Table 8:

TABLE 8: ACCEPTANCE PROPERTIES – METHOD A & C

Properties	Point of Sampling	Test Method
Gradation	Paver Hopper	AASHTO T 30
PGAB Content	Paver Hopper	AASHTO T 308
% TMD (In-Place Density)	Mat behind all Rollers	AASHTO T 269
Voids at N _{design}	Paver Hopper	AASHTO T 312
VMA at N _{design}	Paver Hopper	AASHTO T 312
Fines to Effective Binder	Paver Hopper	AASHTO T 312
VFB	Paver Hopper	AASHTO T 312

The Department will obtain samples of Hot Mix Asphalt Pavement in conformance with AASHTO R 97, Sampling Asphalt Mixtures, and the MaineDOT Policies and Procedures for HMA Sampling and Testing. The Contractor shall transport the samples in containers provided by the Department to the designated MaineDOT Laboratory within 48 hours except when otherwise noted in the project specific QCP or as directed by the Resident. Failure to deliver an acceptance sample to the designated acceptance laboratory will be considered the second incident under 106.4.6–QCP Non-Compliance.

Target values shall be as specified in the JMF. The Department will withhold reporting of the test results for the Acceptance sample until 7:00 AM, on the second working day of receipt of the sample, or after receipt of the Contractors results of the Acceptance sample split. Upon conclusion of each lot being evaluated under quality level analysis, where there is a minimum of four sublots, results shall be examined for statistical outliers, as stated in Section 106.7.2 - Statistical Outliers.

Lot sizes and subplot sizes shall be determined as outlined in Table 9.

TABLE 9: LOT AND SUBLOT SIZES – METHOD A & C

Lot Size*	Entire production per item per contract per year up to 6000 ton
Maximum Sublot Size – Mix	750 ton
Maximum Sublot Size – Density	Surface Layers – 250 ton Base / Intermediate Layers – 500 ton
Minimum Number of Samples – Mix	Four
Minimum Number of Samples – Density	Five

*General – Lot and Sublot size may be adjusted to accommodate the work scope and schedule, or as otherwise agreed upon at the Prepave Meeting

If there is less than one-half of a subplot remaining at the end of production for the year, then it shall be combined with the previous subplot. If there is more than one-half subplot remaining at the end of production for the year, then it shall constitute the last subplot and shall be represented by test results. If it becomes apparent partway through a Lot that, due to an underrun, there will be insufficient mix quantity to obtain the minimum number of sublots needed, the Resident may adjust the size of the remaining sublots and select new sample locations based on the estimated quantity of material remaining in the Lot. Unanticipated over-runs of up to 1500 ton shall be rolled into the last lot. Cases where the lot is terminated prior to reaching completion shall be handled in accordance with Section 106.7.3 Early Termination of Lots. In cases where a density incentive/disincentive provision apply, additional cores shall be taken to attain a minimum of three for the Lot.

Isolated Areas During the course of inspection, should it appear that there is an isolated area that is not representative of the lot based on a lack of observed compactive effort, excessive segregation, a change in process or any other questionable practice, that area may be isolated and tested separately. An area so isolated that has a calculated pay factor below 0.80 for Method A, based on three random tests shall be removed and replaced at the expense of the Contractor for the full lane width and a length not to be less than 150 ft.

TABLE 10: ACCEPTANCE LIMITS – METHOD A & C

Property	USL and LSL	
	Method A	Method C
Percent Passing 4.75 mm and larger sieves	Target +/- 7%	Target +/- 7%
Percent Passing 2.36 mm to 1.18 mm sieves	Target +/- 4%	Target +/- 5%
Percent Passing 0.60 mm sieve	Target +/- 3%	Target +/- 4%
Percent Passing 0.30 mm to 0.075 mm sieve	Target +/- 2%	Target +/- 2%
PGAB Content	Target +/- 0.4%	Target +/- 0.4%
Voids at N_{design}	4.0% +/- 1.5%	N/A
Fines to Effective Binder	0.9 +/- 0.3	N/A
VMA at N_{design}	LSL from Table 1	N/A
VFB	Table 1 plus a 4% production tolerance for USL	N/A
% TMD (In-place Density)	94.5% +/- 2.5%	94.5% +/- 2.5%

Cease Production The Contractor shall cease paving operations whenever one of the following occurs on a lot in progress:

TABLE 11: CEASE PRODUCTION – METHOD A & C

Property	Percent Within Limits (PWL)	
	Method A	Method C
Percent Passing NMA sieve*	<60 PWL	<60 PWL
Percent Passing 2.36 mm sieve*		
Percent Passing 0.30 mm sieve*		
Percent Passing 0.075 mm sieve*		
PGAB Content		N/A
Voids at N _{design}		
Fines to Effective Binder*		
VMA at N _{design}		
VFB		
% TMD (In-place Density)		<60 PWL

*Paving operations shall not be required to cease if the mean test value is equal to the LSL or USL and $s = 0$.

In cases where the Contractor is to cease paving operations based upon an Acceptance result or payfactor, the Contractor will submit a corrective action plan to the Department. The Department will only allow the continuation of paving operations when it is satisfied the corrective action will result in an improvement in results. The Department may require the submittal of a passing verification sample to allow further production.

401.201 Pay Adjustment - Method A & C The Department will use the following criteria for pay adjustment at the completion of the Lot using the pay adjustment factors under Section 106.7 - Quality Level Analysis.

Density Upon conclusion of each lot, density results shall be examined for statistical outliers as stated in Section 106.7.2. If the pay factor for Density falls below 0.80, all of the cores will be randomly re-cut by Sublot. A new pay factor will be calculated that combines all initial and retest results. If the resulting pay factor is below 0.80, the entire Lot shall be removed and replaced with material meeting the specifications at no additional cost to the Department, except that the Department may, when it appears that there is a distinct pattern of defective material, isolate any defective material by investigating each mix sample subplot and require removal of defective mix sample sublots only, leaving any acceptable material in place if it is found to be free of defective material. Pay factors equal to or greater than the reject level will be paid accordingly.

Mix Properties The Department will determine a pay factor (PF) using the applicable Acceptance Limits. If all three pay factors for PGAB Content, VMA at N_{design}, and Voids at N_{design} fall below 0.80 for Method A, then the composite pay factor for PGAB Content, VMA at N_{design}, and Voids at N_{design} shall be 0.50.

The following variables will be used for pay adjustment:

PA = Pay Adjustment
 Q = Quantity represented by PF in ton
 P = Contract price per ton
 PF = Pay Factor

The Department will determine a pay adjustment using Table 12: Pay Adjustment Calculations as follows:

TABLE 12: PAY ADJUSTMENT CALCULATIONS – METHOD A & C

Acceptance Method	Mix Properties / Gradation	Density
Method A	$PA = (\text{Voids @ } N_d \text{ PF} - 1.0)(Q)(P) \times 0.20 + (\text{VMA @ } N_d - 1.0)(Q)(P) \times 0.20 + (\text{PGAB Content PF} - 1.0)(Q)(P) \times 0.10$	$PA = (\text{density PF} - 1.0)(Q)(P) \times 0.50$
Method C	$PA = (\% \text{ Passing Nom. Max PF} - 1.0)(Q)(P) \times 0.05 + (\% \text{ passing 2.36 mm PF} - 1.0)(Q)(P) \times 0.05 + (\% \text{ passing 0.30 mm PF} - 1.0)(Q)(P) \times 0.05 + (\% \text{ passing 0.075 mm PF} - 1.0)(Q)(P) \times 0.10 + (\text{PGAB Content PF} - 1.0)(Q)(P) \times 0.25$	$PA = (\text{density PF} - 1.0)(Q)(P) \times 0.50$

In addition, for 9.5 mm NMAS mixtures the following pay adjustment shall also apply:

The average percent passing for the 0.075 mm sieve shall be evaluated for each Lot. If the average is greater than 6.5%, a pay adjustment according to Table 13 below shall apply in addition to the other pay adjustments for the given method of testing.

TABLE 13: 0.075 MM SIEVE PAY ADJUSTMENT

Average Percent Passing 0.075 mm Sieve	Pay Adjustment
6.6% - 7.0%	-5%
> 7.0%	-10%

The Department shall notify the Contractor whenever the average of at least three samples in a given Lot is greater than 6.5%.

401.21 Acceptance Method B & D Unless otherwise stated in the 403 special provision, the Lot shall be the entire mix quantity per item per contract per year. The Department will sample once per subplot per pay item on a statistically random basis, test, and evaluate in accordance with the Acceptance Properties in Table 14. The Department will obtain samples of Hot Mix Asphalt Pavement in conformance with AASHTO R 97, Sampling Asphalt Mixtures, and the MaineDOT Policies and Procedures for HMA Sampling and Testing. The Contractor shall transport the samples in containers provided by the Department to the designated MaineDOT Laboratory within 48 hours except when otherwise noted in the project specific QCP or as directed by the Resident. Failure to deliver an acceptance sample to the designated acceptance laboratory will be considered the second incident under 106.4.6–QCP Non-Compliance. Target values shall be as specified in the JMF. The Department will withhold reporting of the test results for the Acceptance sample until 7:00 AM, on the second working day of receipt of the sample, or after receipt of the Contractors results of the Acceptance sample split.

TABLE 14: ACCEPTANCE PROPERTIES – METHOD B & D

Properties	Point of Sampling		Test Method
	Method B	Method D	
Gradation	Paver Hopper	Paver Hopper or Truck	AASHTO T 30
PGAB Content	Paver Hopper	Paver Hopper or Truck	AASHTO T 308
% TMD (In-Place Density)	Mat behind all Rollers	Mat behind all Rollers	AASHTO T 269
Voids at N_{design}	Paver Hopper	N/A	AASHTO T 312
VMA at N_{design}	Paver Hopper	N/A	AASHTO T 312
Fines to Effective Binder	Paver Hopper	N/A	AASHTO T 312
VFB	Paver Hopper	N/A	AASHTO T 312

TABLE 15: LOT AND SUBLOT SIZES – METHOD B & D

Lot Size*	Entire mix quantity per item per contract per year
Maximum Sublot Size – Mix	250 ton (Max 4 Sublots)
Sublot Size – Density	125 ton (Max 5 Sublots)

*General – Lot and Sublot size may be adjusted to accommodate the work scope and schedule, or as otherwise agreed upon at the Prepave Meeting

If there is less than one-half of a sublot remaining at the end of production for the year, then it shall be combined with the previous sublot. If there is more than one-half sublot remaining at the end of production for the year, then it shall constitute the last sublot.

TABLE 16: ACCEPTANCE LIMITS – METHOD B & D

Property	USL and LSL	
	Method B	Method D
Percent Passing 4.75 mm and larger	Target +/- 7%	Target +/- 7%
Percent Passing 2.36 mm sieve	Target +/- 5%	Target +/- 7%
Percent Passing 1.18 mm sieve	Target +/- 5%	Target +/- 5%
Percent Passing 0.60 mm sieve	Target +/- 4%	Target +/- 4%
Percent Passing 0.30 mm sieve	Target +/- 3%	Target +/- 3%
Percent Passing 0.075 mm sieve	Target +/- 3%	Target +/- 3%
PGAB Content	Target +/- 0.5%	Target +/- 0.5%
Voids at N_{design}	4.0% +/- 2.0%	N/A
Fines to Effective Binder	0.9 +/- 0.3	N/A
VMA at N_{design}	LSL from Table 1	N/A
VFB	Table 1 plus a 4% production tolerance for USL	N/A
% TMD (In-place Density)	94.5% +/- 2.5%	LSL of 92.0%

The Contractor shall cease paving operations whenever two consecutive Method B or D tests fall outside specification limits on the same property. The Contractor will submit a corrective action plan to the Department. The Department will only allow the continuation of paving operations when it is satisfied the corrective action will result in an improvement in results. The Department may require the submittal of a passing verification sample to allow further production.

401.211 Pay Adjustment - Method B & D For items accepted under Method B or D, if the mix is within the tolerances listed in Table 16, the Department will pay the contract unit price. Otherwise, pay adjustments as shown in Table 17 shall be applied to the quantity of mix represented by the test. The Contractor shall cut one 6 in core per sublot unless otherwise noted in Section 403 - Hot Mix Asphalt Pavement. If the density result is not within the specified limits the disincentive shall apply. If the sublot density is less than 88.5 percent or greater than 99.0 percent of the sublot TMD, two additional cores shall be cut at random locations determined by the Department. If either of the additional cores has a density less than 88.5 percent or greater than 99.0 percent of the sublot TMD, the sublot shall be removed and replaced at no cost to the Department; otherwise, the average of the three cores will be used to determine the sublot pay adjustment.

TABLE 17: PAY ADJUSTMENTS – METHOD B & D

Property	Method B		Method D	
Percent Passing 2.36 mm sieve	N/A		-2.0%	
Percent Passing 0.30 mm sieve	N/A		-1.0%	
Percent Passing 0.075 mm sieve	-2.0%		-2.0%	
PGAB Content	-5.0%		-5.0%	
Voids at N _{design}	-3.0%		N/A	
% TMD (In-place Density)	91.5% - 91.9% or 97.1% - 97.5%	-5.0%	91.5% - 91.9%	-5.0%
	90.5% - 91.4% or 97.6% - 98.5%	-10.0%	90.5% - 91.4%	-10.0%
	89.5% - 90.4% or 98.6% - 99.0%	-20.0%	89.5% - 90.4%	-20.0%
	88.5% - 89.4%	-30.0%	88.5% - 89.4%	-30.0%
	<88.5% or >99.0%	Reject	<88.5% or >99.0%	Reject

401.30 Method of Measurement The Department will measure Hot Mix Asphalt Pavement by the ton in accordance with Section 108.1 - Measurement of Quantities for Payment.

401.40 Basis of Payment The Department will pay for the work, in place and accepted, in accordance with the applicable sections of this Section, for each type of HMA specified.

The Department will pay for the work specified in Section 401.12, for the HMA used, except that cleaning objectionable material from the pavement and furnishing and applying bituminous material to joints and contact surfaces is incidental. Payment for this work under the appropriate pay items shall be full compensation for all labor, equipment, materials, and incidentals necessary to meet all related contract requirements, including design of the JMF, implementation of the QCP, obtaining core samples, transporting cores and samples, filling core holes, applying emulsified asphalt to joints, and providing testing facilities and equipment. The Department will make a pay adjustment for quality as specified in Section 401.20 Acceptance Method A & B or 401.21 Acceptance Method C & D.

401.50 Process for Dispute Resolution At the time of Hot-Mix Asphalt sampling, the Department will obtain a split sample of each Acceptance test random sample for possible dispute resolution testing. The Contractor shall also obtain a split sample of the HMA at this same time. If the Contractor wishes to retain the option of requesting dispute testing of the initial Acceptance sample, the Contractor will test their split of the Acceptance sample in accordance with applicable AASHTO procedure and accepted supplemental practice as described in the Department's HMA Sampling and Testing Policies and Procedures manual. The Contractor shall report their results to the Resident, with a copy to Contractor.mainedot@maine.gov by 7:00 AM, on the second working day from time of QA sampling, otherwise dispute resolution will not be initiated. The Department's dispute resolution split sample will be properly labeled and stored for a period of at least two weeks after it has been reported, or until the sample is tested. The properties eligible for dispute and the respective variances are shown in Table 18.

The Contractor may dispute the Department's Acceptance results and request that the dispute resolution split sample be tested by notifying the Department's Resident and QA Engineer in writing within two working days after the results of the Acceptance test are reported. The following shall be provided in the request:

- Acceptance sample reference number
- The specific test result(s) or property(ies) being disputed, and
- The complete, signed report of the Contractor's testing (In a lab certified by the NETTCP and MaineDOT) of their split of the Acceptance sample indicating that the variances in Table 18 for the specific test result(s) or property(ies) were met or exceeded.

TABLE 18: DISPUTE RESOLUTION VARIANCE LIMITS

Property	Method A & B	Method C & D*	Variance Limits
PGAB Content	Yes	Yes	+/- 0.4%
G _{mb}	Yes	No	+/- 0.030
G _{mm}	Yes	Only if referenced to a Core	+/- 0.020
Voids at N _{design}	Only if G _{mb} or G _{mm} is not disputable	No	+/- 0.8%
VMA at N _{design}	Only if G _{mb} or G _{mm} is not disputable	No	+/- 0.8%
Percent Passing 4.75 mm and larger sieves	No	Yes^	+/- 4.0%
Percent Passing 2.36 mm to 0.60 mm sieves	No	Yes^	+/- 3.0%
Percent Passing 0.30 mm to 0.15 mm sieves	No	Yes^	+/- 2.0 %
0.075 mm sieve	Only for 9.5 mm NMAS mixes	Yes	+/- 0.8%

*Disputes will not be allowed on Item 403.209

^Disputes will only be allowed on Sieve Sizes used for pay adjustment calculations

The value of any disputed result or property reported for the initial Acceptance sample shall stand if the value reported for the dispute resolution sample is not closer to the value the Contractor reported for their split sample than to the value reported for the initial Acceptance sample. If the value reported for the dispute resolution falls precisely half-way between the other two values the value reported for the dispute resolution will replace the original acceptance value. Otherwise, the value reported for the dispute resolution sample will replace the value reported for the initial Acceptance sample and will be used to re-calculate any other affected results or properties.

SECTION 402 - PAVEMENT SMOOTHNESS

402.00 Smoothness Projects Projects to have their pavement smoothness analyzed in accordance with this Specification will be so noted in Special Provision 403 - Hot Mix Asphalt Pavement.

402.01 Pavement Smoothness The final pavement surface shall be evaluated for smoothness using a Class I or Class II profiler as defined by ASTM E950 (94). Smoothness measurements will be expressed in terms of the International Roughness Index (IRI) as defined by the World Bank, in units of inches/mile.

402.02 Lot Size Lot size for smoothness will be 3000 lane-feet. A subplot will consist of 50 lane-feet. Partial lots will be included in the previous lot if less than one-half the size of a normal lot. If equal to or greater than one-half the normal lot size, it will be tested as a separate lot.

402.03 Acceptance Testing The Department will conduct Acceptance testing following completion of the surface course. Sections to be excluded from testing include the following:

- Bridge decks and joints (no smoothness measurements will be taken within 100 ft of bridge joints)
- Acceleration and deceleration lanes
- Shoulders and ramps
- Side streets and roads
- Within 100 ft of transverse joints at the beginning and end of the project
- Within 100 ft of railroad crossings
- Urban areas with speed limits of 30 mph or lower

Each lot shall have 2 measurements made in each wheel path. The average of the 4 measurements will determine the smoothness for that lot. The smoothness measurements will be statistically evaluated for pay factors as described in Subsection 106.7 - Quality Level Analysis, using the specification limits shown below.

TABLE 1: ACCEPTANCE LIMITS

Level	USL
I	55 in/mile
II	65 in/mile
III	75 in/mile

Computation of Smoothness Pay Adjustment:

$PA = (PF - 1.0)(Q)(P)$ where:

Q = Quantity of surface course in the Lot (excluding shoulders, side streets, bridge decks, ramps, acceleration and deceleration lanes)

PF = smoothness pay factor for the Lot

P = Contract unit price for surface pavement

PA = pay adjustment

402.04 Unacceptable Work In the event that any Lot is found to have a pay factor less than 0.80, the Contractor shall take whatever remedial action is required to correct the pavement surface in that Lot at no additional expense to the Department. Such remedial action may include but is not limited to removal and replacement of the unacceptable pavement. In the event remedial action is necessary, the Contractor shall submit a written plan to the Resident outlining the scope of the remedial work. The Resident must approve this plan before the remedial work can begin. Following remedial work, the Lot shall be retested, and will be subject to the specification limits listed above. The resulting pay factor, if within the acceptable range, will be used in the final pay adjustment. The Contractor shall pay the cost of retesting the pavement following corrective action.

Localized surface tolerance defects will be subject to the provisions outlined in Section 401.11 Surface Tolerances.

Payment will be made under:

Pay Item

402.10 Incentive/Disincentive - Pavement Smoothness

Pay Unit

Lump Sum

SECTION 403 - HOT MIX ASPHALT PAVEMENT

403.01 Description This work shall consist of constructing one or more courses of Hot Mix Asphalt pavement on an approved base in accordance with these specifications, and in reasonably close conformity with the lines, grades, thickness and typical cross sections shown on the plans or established. The HMA pavement shall be composed of a mixture of aggregate, filler if required, and asphalt material.

403.02 General The materials and their use shall conform to the requirements of Section 401 - Hot Mix Asphalt Pavement.

403.03 Construction The construction requirements shall be as specified in Section 401 - Hot Mix Asphalt Pavement.

403.04 Method of Measurement Hot mix asphalt pavement will be measured as specified in Section 401.21- Method of Measurement.

403.05 Basis of Payment The accepted quantities of hot mix asphalt pavement will be paid for at the contract unit price per ton for the mixtures, including hot mix asphalt material complete in place. Method A, Method B, Method C and Method D shall be used for acceptance as specified in Section 401 - Hot Mix Asphalt Pavements. (See Complementary Notes, Section 403 - Hot Mix Asphalt Pavement, for Method location).

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
403.102 Hot Mix Asphalt Pavement for Special Areas	Ton
403.206 Hot Mix Asphalt, 25 mm Nominal Maximum Size	Ton
403.207 Hot Mix Asphalt, 19.0 mm Nominal Maximum Size	Ton
403.2071 Hot Mix Asphalt, 19.0 mm Nominal Maximum Size (Polymer Modified)	Ton
403.2072 Asphalt Rich Hot Mix Asphalt, 19.0 mm Nominal Maximum Size (Asphalt Rich Base and Intermediate course)	Ton
403.208 Hot Mix Asphalt, 12.5 mm Nominal Maximum Size	Ton
403.2081 Hot Mix Asphalt - 12.5 mm Nominal Maximum Size (Polymer Modified)	Ton
403.209 Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (Sidewalks, Drives, Islands & Incidentals)	Ton
403.210 Hot Mix Asphalt, 9.5 mm Nominal Maximum Size	Ton
403.2101 Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (Polymer Modified)	Ton
403.2104 Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (Thin Lift Surface Treatment)	Ton
403.211 Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (Shimming)	Ton
403.2111 Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (Shimming, Polymer Modified))	Ton
403.212 Hot Mix Asphalt, 4.75 mm Nominal Maximum Size	Ton
403.213 Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Base and Intermediate Base course)	Ton
403.2131 Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Base and Intermediate Base course, Polymer Modified)	Ton
403.2132 Asphalt Rich Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Base and Intermediate Base course)	Ton
403.214 Hot Mix Asphalt, 4.75 Nominal Maximum Size (5/8" Surface Treatment)	Ton

SPECIAL PROVISION
SECTION 401 - HOT MIX ASPHALT PAVEMENT
 (HMA with Fine Micro-Deval Requirement)

The following subsections of the most current version of Specification 401 – Hot Mix Asphalt Pavements have been revised and amended by the following:

401.01 Description The Contractor shall compose Hot Mix Asphalt (HMA) Pavement with aggregate, Performance Graded Asphalt Binder (PGAB), and mineral filler if required. If denoted in Special Provision 403 - Hot Mix Asphalt Pavement, the mixtures shall meet the additional aggregate requirements of this special provision.

401.02 Materials Materials shall meet the requirements specified in Section 700 – Materials, unless otherwise revised in this special provision:

Aggregates for HMA Pavement	703.07
HMA Mixture Composition	703.09

The HMA blend, minus any RAP used, shall have a Fine Micro-Deval value of 15.0 or less as determined by weighted average of individual fine aggregate source values determined through ASTM D7428.

SPECIAL PROVISION
SECTION 403
HOT MIX ASPHALT

Desc. Of Course	Grad Design.	Item Number	Total Thick	No. Of Layers	Comp. Notes
<u>Variable Depth Mill & 1 ½" HMA Overlay w/ Variable Depth Shim</u>					
<u>Travelway, Turn Lane, Center Turn Lane, Shoulders & Side Roads (As Indicated)</u>					
Wearing	12.5 mm	403.2081	1 ½"	1	2,4,8,22,24,40,42,43
Shim	9.5 mm	403.2111	variable	1/more	2,4,8,20,24,30,42,43
<u>4" HMA - Full Reconstruction</u>					
<u>Hooper Street - Travelway (As Indicated)</u>					
Wearing	12.5 mm	403.2081	1 ½"	1	2,4,8,24,40,42,44
Base	12.5 mm	403.213	2 ½"	1	4,8,24,40,42,44
<u>Cross Trenches - Base Paving (As Indicated)</u>					
Base	12.5 mm	403.213	4" or Match	2	4,8,30,34
<u>Granite Curb, Catch Basins & Structures - Reset, Adjust, Install or Alter</u>					
<u>Base Paving (As Indicated or Directed)</u>					
Base	12.5 mm	403.213	4" or Match	2	4,8,30,31,32,53
<u>Spot Shim (As Directed)</u>					
Shim	9.5 mm	403.2111	variable	1/more	2,4,8,20,24,30
<u>Drives, Island, Misc. (As Directed)</u>					
Wearing	9.5 mm	403.209	2-3"	1/more	3,20,30

COMPLEMENTARY NOTES

2. The required PGAB shall be a storage-stable, homogeneous, polymer modified asphalt binder that meets **or exceeds PG 64E-28** grading requirements in AASHTO M 332. All polymer modified asphalt grades utilized on the Project shall be treated with an approved liquid anti-strip. PG binders shall be treated either at the asphalt source terminal with the required dose rate on the delivery documentation, or at the hot mix asphalt plant utilizing a system integrated with the plants controls that will introduce a minimum 0.50 percent anti-strip by weight of asphalt binder used unless a rate is otherwise recommended by the anti-strip manufacturer. The PGAB and anti-strip blend shall meet **or exceed** the **PG 64E-28** requirements. The Contractor shall provide supporting test data showing the PGAB and anti-strip blend meet the required criteria.
3. The aggregate qualities shall meet the design traffic level of <3 million ESALS for mix placed under this contract. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **65 gyrations**.
4. The aggregate qualities shall meet the design traffic level of 3 to <10 million ESALS for mix placed under this contract. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **65 gyrations**.
8. Section 106.6 Acceptance, (2) **Method B** as specified Section 401.21 - Quality Assurance Methods B and D.
20. The combined aggregate gradation required for this item shall be classified as a 9.5mm Thin Lift Mixture (TLM) mixture, using the Aggregate Gradation Control Points as defined in 703.09.
22. A notch wedge apparatus shall be required as per section 401.16 will be required on all joints between travel lanes. Longitudinal Joint Density incentive/disincentives will not apply, however the Department may require cores for informational purposes. At minimum, the Contractor shall **triple the tack application** the entire face (vertical and wedge) of the notch wedge.
24. See Special Provision 401 - HMA with Fine Micro-Deval Requirement for project specifics.

30. The incentive/disincentive provisions for density shall not apply. Rollers shall meet the requirements of this special provision. The use of an oscillating steel roller shall be required to compact all mixtures pavements placed on bridge decks.
31. A dedicated Quality Control Technician (QCT) is **not** required during placement of HMA for this specified operation. However, a daily paving report, summarizing the mixture type, mixture temperature, equipment used, environmental conditions, and number of roller passes, shall be recorded and signed by a **NETTCP Certified Paving Inspector acting as the Contractor's representative** and presented to the Department's representative by the **end of the working day**. If requested by the Contractor, the Department may allow the use of the **MaineDOT Competent Person Policy** in lieu of a NETTCP Certified Paving Inspector.
32. The Contractor shall saw cut at a consistent width to allow compaction of mix in the trench. The minimum width of the trench shall be **2 feet** to accommodate a **150 lbs** plate compactor as a minimum. Payment for additional milling or saw cutting required shall not be considered directly, but instead shall be considered incidental to the paving items.
34. The Contractor shall saw cut at a consistent width to allow transverse rolling of the trench. When applicable, a **10 ton** roller will be required. In areas inaccessible to a **10 ton** roller, compaction of the new Hot Mix Asphalt Pavement will be obtained using a minimal roller train consisting of a **3-5 ton** vibratory roller. The **minimum width of the trench shall be 5 feet** to accommodate a **3-5 ton** vibratory roller. Payment for additional milling or saw cutting required shall not be considered directly, but instead shall be considered incidental to the paving items.
40. The entire roadway, from curb to curb, shall be considered mainline travelway for density testing purposes according to the specified testing method.
42. The Contractor shall plan its construction sequencing so that no longitudinal joints fall within the mainline travelway lanes (excluding center turn lanes)
43. The Department shall profile railroad and bridge approaches every 10 feet along the roadway center line and edge of travelways, out to a match point at a minimum of 75 feet from the structure, to determine the approach pavement taper, elevations, and pavement removal or shim requirements. This work shall be accomplished in cooperation with the Contractor by means of conventional surveying equipment or blocking and string lines as cooperatively determined by the Contractor and Department. At minimum, the survey work will be completed 10 days prior to milling and/or paving operations.
44. The contractor shall mill a stepped butt joint into the existing pavement at both the beginning and end joints for each pavement layer excluding the bottom base layer. For each layer, the stepped joint shall be cut to the depth and width of the pavement layer being placed and extend 5 feet beyond the immediate underlying layer. The **butt joint** for the overlying layer shall be **completed prior** to placing the adjacent layer. The Resident may extend this length as determined by the condition of the match point. No additional payment will be made for the milling of the butt joints but will instead be considered incidental to associated paving items.
53. At the discretion of the Contractor, the use of concrete fill will be allowed in lieu of pavement and gravel to back fill around granite curbing (Type 1 & 5). When utilized, at least 3" of HMA shall be placed on top of the concrete fill for cover on the mainline edge of curb (face of curb). At minimum, the Concrete shall be a 3000 psi Class S or Class Fill Concrete. **Flowable fill shall not be permitted**. Unless otherwise specified, there will not be additional compensation for the Concrete Fill but shall be considered incidental to the 609 items.

Tack Coat

A tack coat of emulsified asphalt, RS-1, RS-1h, CRS-1 or CRS-1h, Item 409.15 shall be applied to any existing pavement at a rate of approximately 0.030 gal/yd², and on milled pavement approximately 0.05 gal/yd² prior to placing a new course. A fog coat of emulsified asphalt shall be applied between shim /base courses and surface course as well as to any bridge membrane prior to the placement of HMA layers at a rate not to exceed 0.030 gal/yd². Tack used will be **paid for at the contract unit price** for Item 409.15 Bituminous Tack Coat.

SPECIAL PROVISION
SECTION 424
Mastic-Based Crack Sealing

Description This work shall consist of furnishing all labor, equipment and materials necessary to clean, fill and seal longitudinal and transverse cracks in bituminous concrete pavement courses. Materials are to be thoroughly applied to seal the cracks. This work shall consist of the furnishing and placement of mastic-based crack sealing material in the cracks of existing bituminous concrete pavement in accordance with these Special Provisions. This work shall consist of crack cleaning and drying, material supply and heating, preparation and application material, material finishing or shaping, and providing and installing barrier material or curing materials as required.

MATERIALS

The mastic-based materials are hot-applied, pourable, self-adhesive mastics designed for maintenance and repair of asphalt and Portland cement concrete pavements. Hot pour mastic materials are composed of highly modified polymer asphalt binder and up to 2% synthetic fiber (by weight) as required by the application and approved by the Department.

Mastic based sealing materials shall be delivered in the manufacturer's original container. Mastic material based sealing materials shall be pre-packaged with the manufacturers name and product name marked on each container. The materials shall conform to the following requirements:

Parameter

Color	Black
Pourability @ 400F (PTM1)*	1000-1400 gm
Stability @ 158F (PTM2)	.6in. max
Flexibility @ Low Temperature (PTM3)	Pass @ -20F
Adhesion @77F (PTM4)	15psi min.
Specific Gravity (ASTM D792)	1.35max.
Skid Resistance, BPN (ASTM E303)	40 min.
Minimum Application Temperature	375°F
Maximum Application Temperature	410°F

QUALITY CONTROL REQUIREMENTS

Quality Control The Contractor shall develop and submit a Quality Control Plan (QCP) that addresses the materials to be used, equipment to be used, methods of material usage (quantity measurements and tracking) as well as installation methods and protection of the work as it is completed. The Contractor shall control the work and operate in accordance with the approved QCP in order to install product and complete work meeting the contract requirements. The Contractor shall not begin sealing operations until the Department approves the QCP in writing.

Quality Control The QCP shall meet the requirements of Section 106.6 – Acceptance and this Section. The QCP shall address any items that affect the quality of the operation, and shall include the following personnel meeting these minimum requirements:

- a. QCP Administrator – The QCP Administrator must be a full-time employee of or a consultant engaged by the prime contractor or crack sealing subcontractor. The QCP Administrator shall have full authority to institute any and all actions necessary for the successful implementation of the QCP. The QCP Administrator (or their designee in the QCP Administrator's absence) may not be required to be onsite during all work activities but shall be available to communicate with the Department as needed.
- b. Onsite Representative - The Onsite Representative (OR) shall be onsite and work directly with the crew as needed. The OR shall perform quality control inspections or measurements at the job site to assure that materials or installations meet the requirements of the contract.

The QCP shall detail the coordination of the activities of the Plan Administrator, and the OR. The Superintendent shall be named in the QCP if different than the OR, and the responsibilities for successful implementation of the QCP within the companies' activities shall be outlined.

The QCP shall address any items that may impact the quality of the sealant installation including, but not limited to, the following:

a. General Requirements:

- Name of QCP Administrator
- Description of corrective action processes
- Remediation of defective work

b. Quality Control Plan requirements

- Name of Onsite Representative(s)
- Material type to be used (including product data sheet)
- Heating and installation temperatures
- Procedures to clean, dry and properly prepare all cracks for installation of crack sealants / fillers.
- General sealing operation activities including equipment to be used to install sealants
- Procedures to ensure that cracks are "flush filled" and any overband width does not exceed the contract requirements.
- Procedures to protect any installed sealant from damage from traffic or construction activities.

A summary of the day's results including a quantity report, equipment used, and environmental conditions will be recorded and signed by the OR and presented to the Department's representative by 1 PM the following working day.

Failure to adhere to the QCP, replace or repair defective or non-conforming equipment, or adjust material or installation procedures in an effort to produce work that meets the contract requirements will result in a notification of a quality control violation resulting in monetary penalties.

A letter describing the violation shall be provided to the Contractor which will result in a mandatory work suspension and a reduction in payment as shown in Table 106.4A below. The Contractor shall submit a letter to the Department that details the corrective action made to address the violation(s) in its Quality Control Plan. Work may resume when the Department is satisfied the corrective action will result in adherence to the Quality Control Plan.

Table 106.4 A - Quality Control Pay Reduction

Quality Control Plan Value*		Pay Reduction		
From More Than	To and Including	1st	2nd	3rd & Subsequent
\$0	\$500,000	\$1,000	\$2,000	\$4,000
\$500,000	\$1,000,000	\$2,000	\$4,000	\$8,000
\$1,000,000	\$3,000,000	\$5,000	\$10,000	\$20,000
\$3,000,000	and more	\$10,000	\$20,000	\$40,000

* The Quality Control Plan Value is the total Bid value of all items covered by a Quality Control Plan, as detailed in the applicable specification or Special Provision.

Pay reductions for failure to comply with the approved QCP are cumulative, and the Department will deduct any pay reductions from amounts otherwise due the Contractor. These pay reductions are intended to encourage the Contractor to comply with its approved QCP, and are not necessarily related to the quality of the work provided.

EQUIPMENT

Equipment Equipment used in the performance of the work shall be subject to the Resident's or authorized representative's approval and shall be maintained in a satisfactory working condition at all times. As a minimum, the equipment required will consist of the following:

(1) Air Compressor and air wand: A portable air compressor and air wand shall be supplied to clean the cracks to be sealed prior to using a hot air lance. The air compressor shall be coupled with hose and air wand and be capable of furnishing not less than 150 CFM of air and not less than 100 psi pressure through a 5/8"- inch diameter nozzle. A ½ -inch or ¾-inch nozzle may be used with approval of the Inspector as long as the pressure requirements are being met. The compressor shall be equipped with traps that will maintain the compressed air free of oil and water. A single air compressor may be utilized to supply air to both the air wand and hot air lance with the condition that it will consistently supply the required air volume and pressures for each operation simultaneously.

(2) Sweeper: Manually operated, gas powered air-broom or self-propelled sweeper designed especially for use in cleaning highway and airfield pavements shall be used to remove debris, dirt, and dust from the cracks.

(3) Hot Air Lance: The hot air lance shall be independent of the air wand unit. The hot air lance shall be operated with propane and compressed air in combination and provide 1000 ft/sec of heated air at 2000°F - 3000°F. The lance should draw propane from no smaller than a 100 lb tank using separate hoses for propane and air draw. The hoses shall be wrapped together with reflectorized wrap to keep them together and to protect workers in low light situations. A single air compressor may be utilized to supply air to both the air wand and hot air lance with the condition that it will consistently supply the required air volume and pressures for each operation simultaneously.

(4) Hand Tools: Hand tools shall consist of shall consist of brooms, shovels, metal bars with chisel shaped ends, and any other tools which may be satisfactorily used to prepare cracks to be sealed. Other tools such as, but not limited to, V-shaped squeegee or flat squeegee may be necessary to prevent excessive overband width and thickness.

(5) Melting Kettle: The unit used to melt the mastic-based crack sealing material shall be a double boiler, indirect fired type. The space between inner and outer shells shall be filled with a suitable heat transfer oil or substitute having a flash point of not less than 608°F. The kettle shall be equipped with a satisfactory means of agitating and mixing the joint sealer at all times. This may be accomplished by continuous stirring with mechanically operated paddles and/or a continuous circulating gear pump attached to the heating unit. The kettle must be equipped with thermostatic control calibrated between 200°F and 550°F. The Contractor shall either provide a jacketed thermometer that accurately displays the sealant temperature within the kettle or provide the Resident or

authorized representative with a suitable device for verifying the sealant temperature in the kettle. Temperatures must be able to be checked at any time during the heating of material, application of material, or at the end of the application operation.

GENERAL CONSTRUCTION REQUIREMENTS

Weather Mastic based crack sealing materials shall not be applied on a wet surface, or when the atmospheric temperature is below 45 °F in a shaded area at the job site, or when weather conditions are otherwise unfavorable to proper construction procedures.

Preparations of Cracks All cracks shall be blown free of loose material, dirt, vegetation, and other debris by high pressure air prior to the used of the hot air lance. Material removed from the crack shall be removed from the pavement surface by means of compressed air, power sweeper or appropriate hand tools as required. Cracks showing evidence of vegetation after being blown out shall be additionally cleaned by appropriate hand tools and additionally blown out. All cracks must be blown clean with the high-pressure air wand in advance of the hot air lance. All cracks shall be heated via the hot air lance no more than 5 minutes prior to the crack being sealed. Distance between the hot air lance and the crack sealing unit should be no more than 50 ft to eliminate re-invasion of water, debris, and other incompressible materials. All debris, vegetation, and water shall be removed to

enhance adhesion of the crack sealing material. THIS WORK SHALL NOT BE DONE IN INCLEMENT WEATHER.

Preparation and Placement of Sealer Mastic based crack sealing material shall be heated and applied at the temperature specified by the manufacturer and approved by the Resident or authorized representative. Any material that has been heated above the manufacturer's specification shall not be used. Material that is reheated or held at temperature for an extended period of time may be used as allowed by the manufacturer's specification and approval of the Resident or authorized representative. A copy of the manufacture's specification shall be provided to the Project when requested.

The Contractor shall provide the Resident or authorized representative with a suitable device for verifying the sealant temperature in the kettle and at the application site.

Any loose material on the surface or in the crack, which may contaminate the crack sealer or impede bonding of the sealant to the pavement, is to be removed by hand tools prior to crack filling. No crack filling material shall be applied in a crack that is wet or where frost, snow, or ice is present. The ambient air temperature must be 50 or higher.

Any over application or spills are to be removed to the satisfaction of the Resident or authorized representative. Any sealed areas with damaged or contaminated sealer or visible voids are to be removed, prepared and resealed. Defective or leaking valves and wands will be repaired or replaced before work continues. If repairs or replacement of defective equipment cannot be accomplished immediately then the Department may permit work to continue but deduct any excess quantities placed as it determines.

Cracks ½ inch up to 1 ½ inch in may be sealed with mastic-based crack seal. Generally, repairs wider than 1 ½ inches or those that extend below the surface layer may require a change to different mastic material type or treatment method in order repair cracks.

For projects where mastic-based crack sealing materials will be covered and a hot mix asphalt overlay is being installed over the sealant all cracks will be **“flush filled”**, meaning cracks are filled to a point that the sealant is flush with the existing pavement surface. If the work scope requires a flush fill a nozzle sized to fill the cracks shall be used. Minimal to no overbanding will be permitted.

For projects where the mastic-based crack sealing materials are left un-covered with a hot mix overlay and traffic will be permitted to travel over the sealants for the anticipated sealant life, some overband may be permitted.

If the work scope allows crack filling and sealing with overband, then a shoe sized to meet the overband width shall be used. Generally, the shoe width and the sealer overbanding area shall range from 1 inch – 1.5 inch. Overbanding width may vary from the range specified depending on the width and severity of the cracks.

Sealer shall be delivered to the crack while the cracks are still hot from the hot air lance preparation through a pressure hose line and applicator nozzle or shoe.

The applicator shall be followed by a V-shaped squeegee to minimize the thickness of any overband. The sealer shall be applied at a rate that produces a coating thickness of 3/32 - inch, typical.

If the sealed area is to be opened to traffic immediately, a barrier material (de-tackifier) such as Glenzoil, Black Beauty grit, or an equivalent product approved by the Resident shall be provided by the Contractor and shall be applied to the crack sealer to prevent pickup as directed by the Resident or authorized representative.

If sealed areas are to be paved over with a hot mix asphalt treatment then a 48 hour minimum cure time and use of barrier material (de-tackifier) will be required. Cure times may be extended if excessive pick-up of the crack sealants occurs.

Quality of Work Any excess of sealer, spilled or overapplied, shall be removed from the pavement by approved methods and discarded. Any quality of work determined to be below normal acceptable standards will not be accepted and will be corrected and/or replaced as directed by the Resident or authorized representative.

Method of Measurement Mastic based crack sealing materials will be measured by the pound of sealant used. The manufacturer's weights of the sealant for each block (pill), counted as they are loaded, will be accepted as a basis for measurement.

Should tank checks be approved to verify material usage or calculate initial or final gallons remaining in the tanker, a calibrated tank gauge or tank stick shall be used to measure the tank gallons. Volume corrections shall be calculated using Table:1 to correct the gallon volume to 60 ° F.

For those approved cases the Department has determined the weight of this material to be 10.63 pounds per gallon. The Department will use this conversion value for all materials measured by the gallon and converted to pounds. The corrected volume and resultant pounds shall be made part of the method of measurement, with consideration given to blocks (pills) added during the day and applied in an acceptable manner

Basis of Payment The accepted quantity of Mastic-Based Crack Sealing will be paid for at the contract unit price per pound complete in place. This price shall be full compensation for furnishing and placing crack sealer, including cleaning cracks and furnishing and placing barrier materials if necessary.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
424.22 Asphalt Rubber Crack Sealer Type 2, Applied (With Hot Pour Mastic)	Pound

Conversion Table:1

t	M	t	M	t	M	t	M	t	M	t	M
100	0.9861	135	0.9740	170	0.9621	205	0.9503	240	0.9385	275	0.9269
101	0.9857	136	0.9737	171	0.9618	206	0.9499	241	0.9382	276	0.9266
102	0.9854	137	0.9734	172	0.9614	207	0.9496	242	0.9379	277	0.9263
103	0.9851	138	0.9730	173	0.9611	208	0.9493	243	0.9375	278	0.9259
104	0.9847	139	0.9727	174	0.9607	209	0.9489	244	0.9372	279	0.9256
105	0.9844	140	0.9723	175	0.9604	210	0.9486	245	0.9369	280	0.9253
106	0.9840	141	0.9720	176	0.9601	211	0.9483	246	0.9365	281	0.9250
107	0.9837	142	0.9716	177	0.9597	212	0.9479	247	0.9362	282	0.9246
108	0.9833	143	0.9713	178	0.9594	213	0.9476	248	0.9359	283	0.9243
109	0.9830	144	0.9710	179	0.9590	214	0.9472	249	0.9356	284	0.9240
110	0.9826	145	0.9706	180	0.9587	215	0.9469	250	0.9352	285	0.9236
111	0.9823	146	0.9703	181	0.9584	216	0.9466	251	0.9349	286	0.9233
112	0.9819	147	0.9699	182	0.9580	217	0.9462	252	0.9346	287	0.9230
113	0.9816	148	0.9696	183	0.9577	218	0.9459	253	0.9342	288	0.9227
114	0.9813	149	0.9693	184	0.9574	219	0.9456	254	0.9339	289	0.9223
115	0.9809	150	0.9689	185	0.9570	220	0.9452	255	0.9336	290	0.9220
116	0.9806	151	0.9686	186	0.9567	221	0.9449	256	0.9332	291	0.9217
117	0.9802	152	0.9682	187	0.9563	222	0.9446	257	0.9329	292	0.9213
118	0.9799	153	0.9679	188	0.9560	223	0.9442	258	0.9326	293	0.9210
119	0.9795	154	0.9675	189	0.9557	224	0.9439	259	0.9322	294	0.9207
120	0.9792	155	0.9672	190	0.9553	225	0.9436	260	0.9319	295	0.9204
121	0.9788	156	0.9669	191	0.9550	226	0.9432	261	0.9316	296	0.9200
122	0.9785	157	0.9665	192	0.9547	227	0.9429	262	0.9312	297	0.9197
123	0.9782	158	0.9662	193	0.9543	228	0.9426	263	0.9309	298	0.9194
124	0.9778	159	0.9658	194	0.9540	229	0.9422	264	0.9306	299	0.9190
125	0.9775	160	0.9655	195	0.9536	230	0.9419	265	0.9302	300	0.9187
126	0.9771	161	0.9652	196	0.9533	231	0.9416	266	0.9299	301	0.9184
127	0.9768	162	0.9648	197	0.9530	232	0.9412	267	0.9296	302	0.9181
128	0.9764	163	0.9645	198	0.9526	233	0.9409	268	0.9293	303	0.9177
129	0.9761	164	0.9641	199	0.9523	234	0.9405	269	0.9289	304	0.9174
130	0.9758	165	0.9638	200	0.9520	235	0.9402	270	0.9286	305	0.9171
131	0.9754	166	0.9635	201	0.9516	236	0.9399	271	0.9283	306	0.9167
132	0.9751	167	0.9631	202	0.9513	237	0.9395	272	0.9279	307	0.9164
133	0.9747	168	0.9628	203	0.9509	238	0.9392	273	0.9276	308	0.9161
134	0.9744	169	0.9624	204	0.9505	239	0.9389	274	0.9273	309	0.9158

Legend: t = observed temperature in degrees Fahrenheit.
M = multiplier for reducing volumes to the basis of 60° F.

Conversion Table:1

t	M	t	M	t	M	t	M	t	M
310	0.9154	350	0.9024	390	0.8896	430	0.8768	470	0.8643
311	0.9151	351	0.9021	391	0.8892	431	0.8765	471	0.8640
312	0.9148	352	0.9018	392	0.8889	432	0.8762	472	0.8636
313	0.9145	353	0.9015	393	0.8886	433	0.8759	473	0.8633
314	0.9141	354	0.9011	394	0.8883	434	0.8756	474	0.8630
315	0.9138	355	0.9008	395	0.8880	435	0.8753	475	0.8627
316	0.9135	356	0.9005	396	0.8876	436	0.8749	476	0.8624
317	0.9132	357	0.9002	397	0.8873	437	0.8746	477	0.8621
318	0.9128	358	0.8998	398	0.8870	438	0.8743	478	0.8618
319	0.9125	359	0.8995	399	0.8867	439	0.8740	479	0.8615
320	0.9122	360	0.8992	400	0.8864	440	0.8737	480	0.8611
321	0.9118	361	0.8989	401	0.8861	441	0.8734	481	0.8608
322	0.9115	362	0.8986	402	0.8857	442	0.8731	482	0.8605
323	0.9112	363	0.8982	403	0.8854	443	0.8727	483	0.8602
324	0.9109	364	0.8979	404	0.8851	444	0.8724	484	0.8599
325	0.9105	365	0.8976	405	0.8848	445	0.8721	485	0.8596
326	0.9102	366	0.8973	406	0.8845	446	0.8718	486	0.8593
327	0.9099	367	0.8969	407	0.8841	447	0.8715	487	0.8590
328	0.9096	368	0.8966	408	0.8838	448	0.8712	488	0.8587
329	0.9092	369	0.8963	409	0.8835	449	0.8709	489	0.8583
330	0.9089	370	0.8960	410	0.8832	450	0.8705	490	0.8580
331	0.9086	371	0.8957	411	0.8829	451	0.8702	491	0.8577
332	0.9083	372	0.8953	412	0.8826	452	0.8699	492	0.8574
333	0.9079	373	0.8950	413	0.8822	453	0.8696	493	0.8571
334	0.9076	374	0.8947	414	0.8819	454	0.8693	494	0.8568
335	0.9073	375	0.8944	415	0.8816	455	0.8690	495	0.8565
336	0.9070	376	0.8941	416	0.8813	456	0.8687	496	0.8562
337	0.9066	377	0.8937	417	0.8810	457	0.8683	497	0.8559
338	0.9063	378	0.8934	418	0.8806	458	0.8680	498	0.8556
339	0.9060	379	0.8931	419	0.8803	459	0.8677	499	0.8552
340	0.9057	380	0.8928	420	0.8800	460	0.8674		
341	0.9053	381	0.8924	421	0.8797	461	0.8671		
342	0.9050	382	0.8921	422	0.8794	462	0.8668		
343	0.9047	383	0.8918	423	0.8791	463	0.8665		
344	0.9044	384	0.8915	424	0.8789	464	0.8661		
345	0.9040	385	0.8912	425	0.8784	465	0.8658		
346	0.9037	386	0.8908	426	0.8781	466	0.8655		
347	0.9034	387	0.8905	427	0.8778	467	0.8652		
348	0.9031	388	0.8902	428	0.8775	468	0.8649		
349	0.9028	389	0.8899	429	0.8772	469	0.8646		

Legend: t = observed temperature in degrees Fahrenheit.
M = multiplier for reducing volumes to the basis of 60° F.

SPECIAL PROVISION
SECTION 424
CRACK REPAIR with HOT POUR MASTIC

Description This work shall consist of preparing and repairing areas identified for crack repair in existing bituminous or concrete pavement layers using hot pour mastic. The hot pour mastic shall be supplied in solid form in boxes containing pre-measured binder blended with aggregates. Products to be used will be subject to approval by the Department. Repair areas will be free of sand, vegetation, water, and any previously placed rubber crack seal or crack repair materials, including cold patch. Preparation, such as cleaning and drying of the cracks by use of oil free compressed air and hot air lance shall be considered included the price per pound of crack repair mastic. Any pavement removal required will be paid for under the appropriate item as described in this Special Provision.

MATERIALS

The hot pour mastic materials are hot-applied, pourable, self-adhesive mastics blended with aggregates designed for maintenance and repair of asphalt and Portland cement concrete pavements. The hot pour mastic materials are composed of highly modified polymer asphalt binder and standard weight aggregates as required by the application.

The mastic materials shall be delivered in the manufacturer's original container. The material shall be pre-packaged with the manufacturers name and product name marked on each container. The materials shall conform to the following requirements:

Parameter

Color	Black
Pourability @ 400F (PTM1)*	1000-1400 gm
Stability @ 158F (PTM2)	.6in. max
Flexibility @ Low Temperature (PTM3)	Pass @ -20F
Adhesion @77F (PTM4)	15psi min.
Specific Gravity (ASTM D792)	1.35max.
Skid Resistance, BPN (ASTM E303)	40 min.
Minimum Application Temperature	375°F
Maximum Application Temperature	410°F

QUALITY CONTROL REQUIREMENTS

Quality Control The Contractor shall develop and submit a Quality Control Plan (QCP) that addresses the materials to be used, equipment to be used, methods of material usage (quantity measurements and tracking) as well as installation methods and protection of the work as it is completed. The Contractor shall control the work and operate in accordance with the approved QCP in order to install product and complete work meeting the contract requirements. The Contractor shall not begin sealing operations until the Department approves the QCP in writing.

Quality Control The QCP shall meet the requirements of Section 106.6 – Acceptance and this Section. The QCP shall address any items that affect the quality of the operation, and shall include the following personnel meeting these minimum requirements:

- a. QCP Administrator – The QCP Administrator must be a full-time employee of or a consultant engaged by the prime contractor or crack sealing subcontractor. The QCP Administrator shall have full authority to institute any and all actions necessary for the successful implementation of the QCP. The QCP Administrator (or their designee in the QCP Administrator's absence) may not be required to be onsite during all work activities but shall be available to communicate with the Department as needed.
- b. Onsite Representative - The Onsite Representative (OR) shall be onsite and work directly with the crew as needed. The OR shall perform quality control inspections or measurements at the job site to assure that materials or installations meet the requirements of the contract.

The QCP shall detail the coordination of the activities of the Plan Administrator, and the OR. The Superintendent shall be named in the QCP if different than the OR, and the responsibilities for successful implementation of the QCP within the companies' activities shall be outlined.

The QCP shall address any items that may impact the quality of the sealant installation including, but not limited to, the following:

a. General Requirements:

- Name of QCP Administrator
- Description of corrective action processes
- Remediation of defective work

b. Quality Control Plan requirements

- Name of Onsite Representative(s)
- Material type to be used (including product data sheet)
- Heating and installation temperatures
- Procedures to clean, dry and properly prepare all cracks for installation of crack sealants / fillers.
- General sealing operation activities including equipment to be used to install sealants
- Procedures to ensure that cracks are “flush filled” and any overband width does not exceed the contract requirements.
- Procedures to protect any installed sealant from damage from traffic or construction activities.

A summary of the day's results including a quantity report, equipment used, and environmental conditions will be recorded and signed by the OR and presented to the Department's representative by 1 PM the following working day.

Failure to adhere to the QCP, replace or repair defective or non-conforming equipment, or adjust material or installation procedures in an effort to produce work that meets the contract requirements will result in a notification of a quality control violation resulting in monetary penalties.

A letter describing the violation shall be provided to the Contractor which will result in a mandatory work suspension and a reduction in payment as shown in Table 106.4A below. The Contractor shall submit a letter to the Department that details the corrective action made to address the violation(s) in its Quality Control Plan. Work may resume when the Department is satisfied the corrective action will result in adherence to the Quality Control Plan.

Table 106.4 A - Quality Control Pay Reduction

Quality Control Plan Value*		Pay Reduction		
From More Than	To and Including	1st	2nd	3rd & Subsequent
\$0	\$500,000	\$1,000	\$2,000	\$4,000
\$500,000	\$1,000,000	\$2,000	\$4,000	\$8,000
\$1,000,000	\$3,000,000	\$5,000	\$10,000	\$20,000
\$3,000,000	and more	\$10,000	\$20,000	\$40,000

* The Quality Control Plan Value is the total Bid value of all items covered by a Quality Control Plan, as detailed in the applicable specification or Special Provision.

Pay reductions for failure to comply with the approved QCP are cumulative, and the Department will deduct any pay reductions from amounts otherwise due the Contractor. These pay reductions are intended to encourage the Contractor to comply with its approved QCP, and are not necessarily related to the quality of the work provided.

EQUIPMENT

Equipment Equipment used in the performance of the work shall be subject to the Departments or authorized representative's approval and shall be maintained in a satisfactory working condition at all times.

(a) Air Compressor Air compressors shall be portable and capable of furnishing not less than 4 yd³ of air per minute at not less than 90 psi pressure at the nozzle. The compressor shall be equipped with traps that will maintain the compressed air free of oil and water.

(b) Sweeper Manually operated, gas powered air-broom or self-propelled sweeper designed especially for use in cleaning pavements shall be used to remove debris, dirt, and dust from the cracks.

(c) Hot Air Lance Should operate with propane and compressed air in combination at 2000°F - 3000°F, exit air heated at 1000 ft/s. The lance should draw propane from no smaller than a 100 lb tank using separate hoses for propane and air draw. The hoses shall be wrapped together with reflectorized wrap to keep them together and to protect workers in low light situations.

(d) Hand Tools Shall consist of Boxed or V-shaped squeegee, brooms, shovels, metal bars with chisel shaped ends, and any other tools which may be satisfactorily used to accomplish this work.

(e) Melting Kettle The unit used to heat the mastics shall be a double boiler unit equipped with continuous horizontal full sweep agitation and have separate thermostatic control devices that will automatically regulate hot oil and material temperature. Separate digital readouts shall display the temperatures of the hot oil and material. The kettle shall be equipped with mixing paddles, blending augers, or other satisfactory means of agitating, mixing, and blending the aggregates and mastic together. The kettle must be equipped with thermostatic control calibrated between 200°F and 550°F.

If required in the contract the router or crack saw equipment for preparing cracks shall be of a rotary impact type cutter, equipped with a carbide bit or a diamond-blade crack saw which will provide a reservoir of specified dimensions.

CONSTRUCTION REQUIREMENTS

Weather Hot Pour Mastics shall not be applied on a wet or damp surface, or when the atmospheric temperature is below 45°F in a shaded area at the job site, or when weather conditions are otherwise unfavorable to proper crack repair procedures.

Preparation All cracks shall be prepared to receive the mastic material. All cracks must be cleaned of debris, dried and heated to ensure optimal bonding of the sealant material to the existing pavement and crack edges. All cracks shall be flush filled with pre-blended mastic with minimal overband in the same workday as directed by the Resident or authorized representative.

Cracks greater than 1 inch in width shall be thoroughly cleaned by use of compressed air and dried by use of a hot air lance. Any loose or broken materials will be removed from the repair area before placing mastic materials. If it is determined that additional pavement removal or preparation is needed by means of milling, sawing, or cutting of existing pavement the work will be paid under an appropriate pay item. All materials routed, sawn, cut, or otherwise removed from the areas to be repaired shall immediately be removed from the crack and surrounding paved area by use of compressed air sweeping, or combination of both.

Cracks 1 inch in width to 6 inch width, or repairs that are more structural in nature, such as potholes, depressions, fills or repairs around utility adjustments shall be filled with mastic pre-blended with standard weight aggregates. Generally repairs wider than 6 inches, or those that extend below the surface layer may require additional pavement removal or change in crack treatment type.

All mastic materials shall be heated to between 380°F and 410°F and thoroughly agitated prior to application. A non-contact infrared thermometer shall be used periodically to monitor the temperature of the material as it exits the kettle. Material may not be used if it is heated beyond the safe heating temperature of 410°F, exceeds the recommended pot life, or is reheated more than one time.

Mastics may be applied to large or excessive slope repair areas when the material has been heated to the lower end of the temperature range, or with the addition of 1% of an approved synthetic fiber to minimize material flow and cooling time.

Mastics shall be applied to the repair areas directly from the melting kettle chute, wand or other conveyance method filled from the kettle. If bucketed, material cooling during transfer must be minimized.

The repair area shall be filled flush to the pavement surface. The material shall be poured into the repair area and worked using boxed or v-shaped squeegees, tools, lutes or heated irons. Care should be taken not to over work the material and cause unequal dispersion of the aggregate within the repair. The material may be applied in multiple lifts to accommodate material shrinkage or flow during cooling.

After materials have been applied to the repair, indirect heating by torch or hot air lance can be used to heat the edges and ensure a watertight seal. Do not burn, scorch or ignite the mastic or adjoining pavement when heating.

Do not allow traffic on the repaired areas for one ½ hour, or until the material has cooled enough to support traffic and tracking is minimal.

Quality of Work Excess mastic shall be removed from the pavement by approved methods and discarded. Any work determined to be below normal acceptable standards will not be accepted, and will be corrected and/or replaced as directed by the Resident or authorized representative.

Method of Measurement Crack Repair with Hot Pour Mastic will be measured by the pound of mastic used. The manufacturer's weights of the mastic for each block (pill), counted as they are loaded, will be accepted as a basis for measurement.

Should tank checks be approved to verify material usage or calculate initial or final gallons remaining in the kettle, a calibrated kettle gauge or tank stick shall be used to measure the kettle gallons. Volume corrections shall be calculated using Table:1 to correct the gallon volume to 60 ° F.

For those approved cases the Department has determined the weight of this material to be 15.5 pounds per gallon. The Department will use this conversion value for all materials measured by the gallon and converted to pounds. The corrected volume and resultant pounds shall be made part of the method of measurement, with consideration given to blocks (pills) added during the day and applied in an acceptable manner

Basis of Payment The accepted quantity of Crack Repair with Hot Pour Mastic will be paid for at the contract unit price per pound. This price will be full compensation for furnishing the appropriate material type for the repair being done, heating, placing and finishing the mastic materials, as well as cleaning and preparing the areas for installation of the mastic, including the use of compressed air, hot air lance, and any sweeping required to remove contaminants from and dry the areas to be treated. Areas identified as requiring pavement removal by means of cutting, sawing, grinding, or routing will be paid under an appropriate contract item.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
424.38 Crack Repair - Hot Pour Mastic	Pound

Conversion Table:1

t	M	t	M	t	M	t	M	t	M	t	M
100	0.9861	135	0.9740	170	0.9621	205	0.9503	240	0.9385	275	0.9269
101	0.9857	136	0.9737	171	0.9618	206	0.9499	241	0.9382	276	0.9266
102	0.9854	137	0.9734	172	0.9614	207	0.9496	242	0.9379	277	0.9263
103	0.9851	138	0.9730	173	0.9611	208	0.9493	243	0.9375	278	0.9259
104	0.9847	139	0.9727	174	0.9607	209	0.9489	244	0.9372	279	0.9256
105	0.9844	140	0.9723	175	0.9604	210	0.9486	245	0.9369	280	0.9253
106	0.9840	141	0.9720	176	0.9601	211	0.9483	246	0.9365	281	0.9250
107	0.9837	142	0.9716	177	0.9597	212	0.9479	247	0.9362	282	0.9246
108	0.9833	143	0.9713	178	0.9594	213	0.9476	248	0.9359	283	0.9243
109	0.9830	144	0.9710	179	0.9590	214	0.9472	249	0.9356	284	0.9240
110	0.9826	145	0.9706	180	0.9587	215	0.9469	250	0.9352	285	0.9236
111	0.9823	146	0.9703	181	0.9584	216	0.9466	251	0.9349	286	0.9233
112	0.9819	147	0.9699	182	0.9580	217	0.9462	252	0.9346	287	0.9230
113	0.9816	148	0.9696	183	0.9577	218	0.9459	253	0.9342	288	0.9227
114	0.9813	149	0.9693	184	0.9574	219	0.9456	254	0.9339	289	0.9223
115	0.9809	150	0.9689	185	0.9570	220	0.9452	255	0.9336	290	0.9220
116	0.9806	151	0.9686	186	0.9567	221	0.9449	256	0.9332	291	0.9217
117	0.9802	152	0.9682	187	0.9563	222	0.9446	257	0.9329	292	0.9213
118	0.9799	153	0.9679	188	0.9560	223	0.9442	258	0.9326	293	0.9210
119	0.9795	154	0.9675	189	0.9557	224	0.9439	259	0.9322	294	0.9207
120	0.9792	155	0.9672	190	0.9553	225	0.9436	260	0.9319	295	0.9204
121	0.9788	156	0.9669	191	0.9550	226	0.9432	261	0.9316	296	0.9200
122	0.9785	157	0.9665	192	0.9547	227	0.9429	262	0.9312	297	0.9197
123	0.9782	158	0.9662	193	0.9543	228	0.9426	263	0.9309	298	0.9194
124	0.9778	159	0.9658	194	0.9540	229	0.9422	264	0.9306	299	0.9190
125	0.9775	160	0.9655	195	0.9536	230	0.9419	265	0.9302	300	0.9187
126	0.9771	161	0.9652	196	0.9533	231	0.9416	266	0.9299	301	0.9184
127	0.9768	162	0.9648	197	0.9530	232	0.9412	267	0.9296	302	0.9181
128	0.9764	163	0.9645	198	0.9526	233	0.9409	268	0.9293	303	0.9177
129	0.9761	164	0.9641	199	0.9523	234	0.9405	269	0.9289	304	0.9174
130	0.9758	165	0.9638	200	0.9520	235	0.9402	270	0.9286	305	0.9171
131	0.9754	166	0.9635	201	0.9516	236	0.9399	271	0.9283	306	0.9167
132	0.9751	167	0.9631	202	0.9513	237	0.9395	272	0.9279	307	0.9164
133	0.9747	168	0.9628	203	0.9509	238	0.9392	273	0.9276	308	0.9161
134	0.9744	169	0.9624	204	0.9505	239	0.9389	274	0.9273	309	0.9158

Legend: t = observed temperature in degrees Fahrenheit.
 M = multiplier for reducing volumes to the basis of 60° F.

Conversion Table:1

t	M	t	M	t	M	t	M	t	M
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312	0.9148	352	0.9018	392	0.8889	432	0.8762	472	0.8636
313	0.9145	353	0.9015	393	0.8886	433	0.8759	473	0.8633
314	0.9141	354	0.9011	394	0.8883	434	0.8756	474	0.8630
315	0.9138	355	0.9008	395	0.8880	435	0.8753	475	0.8627
316	0.9135	356	0.9005	396	0.8876	436	0.8749	476	0.8624
317	0.9132	357	0.9002	397	0.8873	437	0.8746	477	0.8621
318	0.9128	358	0.8998	398	0.8870	438	0.8743	478	0.8618
319	0.9125	359	0.8995	399	0.8867	439	0.8740	479	0.8615
320	0.9122	360	0.8992	400	0.8864	440	0.8737	480	0.8611
321	0.9118	361	0.8989	401	0.8861	441	0.8734	481	0.8608
322	0.9115	362	0.8986	402	0.8857	442	0.8731	482	0.8605
323	0.9112	363	0.8982	403	0.8854	443	0.8727	483	0.8602
324	0.9109	364	0.8979	404	0.8851	444	0.8724	484	0.8599
325	0.9105	365	0.8976	405	0.8848	445	0.8721	485	0.8596
326	0.9102	366	0.8973	406	0.8845	446	0.8718	486	0.8593
327	0.9099	367	0.8969	407	0.8841	447	0.8715	487	0.8590
328	0.9096	368	0.8966	408	0.8838	448	0.8712	488	0.8587
329	0.9092	369	0.8963	409	0.8835	449	0.8709	489	0.8583
330	0.9089	370	0.8960	410	0.8832	450	0.8705	490	0.8580
331	0.9086	371	0.8957	411	0.8829	451	0.8702	491	0.8577
332	0.9083	372	0.8953	412	0.8826	452	0.8699	492	0.8574
333	0.9079	373	0.8950	413	0.8822	453	0.8696	493	0.8571
334	0.9076	374	0.8947	414	0.8819	454	0.8693	494	0.8568
335	0.9073	375	0.8944	415	0.8816	455	0.8690	495	0.8565
336	0.9070	376	0.8941	416	0.8813	456	0.8687	496	0.8562
337	0.9066	377	0.8937	417	0.8810	457	0.8683	497	0.8559
338	0.9063	378	0.8934	418	0.8806	458	0.8680	498	0.8556
339	0.9060	379	0.8931	419	0.8803	459	0.8677	499	0.8552
340	0.9057	380	0.8928	420	0.8800	460	0.8674		
341	0.9053	381	0.8924	421	0.8797	461	0.8671		
342	0.9050	382	0.8921	422	0.8794	462	0.8668		
343	0.9047	383	0.8918	423	0.8791	463	0.8665		
344	0.9044	384	0.8915	424	0.8789	464	0.8661		
345	0.9040	385	0.8912	425	0.8784	465	0.8658		
346	0.9037	386	0.8908	426	0.8781	466	0.8655		
347	0.9034	387	0.8905	427	0.8778	467	0.8652		
348	0.9031	388	0.8902	428	0.8775	468	0.8649		
349	0.9028	389	0.8899	429	0.8772	469	0.8646		

Legend: t = observed temperature in degrees Fahrenheit.
 M = multiplier for reducing volumes to the basis of 60° F.

SPECIAL PROVISION
SECTION 502
STRUCTURAL CONCRETE
(QC/QA Acceptance Methods)

CLASS OF CONCRETE	ITEM NUMBER	DESCRIPTION	P	METHOD
A	502.3412	Structural Concrete, Raised Island	-	C
A	608.08	Reinforced Concrete Sidewalk	-	C
A	608.26	Curb Ramp Detectable Warning Field	-	C
LP	626.35	Controller Cabinet Foundation	-	C
LP	626.92	24 Inch Signal Pole Foundation	-	C
LP	626.451	36 Inch Signal Pole Foundation	-	C

SPECIAL PROVISION
SECTION 502
STRUCTURAL CONCRETE
(Raised Islands)

Description This work shall consist of furnishing and placing a portland cement concrete pavement for Raised Islands and incidental construction as shown on the plans, or as directed by the Resident. Except as otherwise specified in this Special Provision, all work shall be in conformity with the applicable provisions of Section 502 - Structural Concrete, Section 503 - Reinforcing Steel, and Section 515 - Protective Coating for Concrete Surfaces.

MATERIALS

Concrete Concrete shall be Class A/Method C.

Reinforcing Steel Reinforcing steel shall be 6" x 6" – W1.4 x W1.4 Welded Steel Fabric as shown on the plans

CONSTRUCTION REQUIREMENTS

Preparation of Foundation The foundation bed shall be well graded and compacted, as directed by the Resident, to provide the thickness of concrete indicated on the plans.

Prior to the concrete placement, the foundation bed shall be thoroughly and uniformly saturated with water. The bed shall be free of puddles and excessive surface water.

Placement of Concrete The concrete mix shall be placed in a continuous placement operation.

The surface of the concrete shall receive a float finish in accordance with Section 502.14(A) - Float Finish. Immediately following the float finish, the surface shall be textured at right angles to the roadway using an approved open-pile, stiff bristle broom finish.

The curing period for the concrete shall be seven days and shall meet the requirements of Section 502.15 - Curing Concrete. The finished surface of the concrete shall receive a protecting coating in accordance with Section 515 - Protective Coating for Concrete Surfaces.

Method of Measurement Structural Concrete, Raised Islands, satisfactorily placed and accepted, will be measured for payment by the cubic yard, in accordance with the dimensions shown on the plans or authorized by the Resident.

Basis of Payment The accepted quantity of Structural Concrete, Raised Islands will be paid for at the contract unit price per cubic yard, which payment will be full compensation for all labor, materials, equipment, and incidentals necessary to complete the work, including the fabrication, delivery, and placement of reinforcement, and the furnishing and the application of the protective coating.

Excavation for the placement of the Structural Concrete, Raised Islands will be paid for under the appropriate contract pay item, Section 203 - Excavation and Embankments.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
502.3412 Structural Concrete, Raised Islands	Cubic Yard

SPECIAL PROVISION
SECTION 604
MANHOLES AND CATCH BASINS

This section is amended by the addition of the following:

Description: This work consists of constructing catch basins and manholes in accordance with the requirements of Section 604 of the Standard Specifications and as shown in the Standard Details.

Method of Measurement: Measurement shall be in accordance with Subsection 604.05.

Basis of Payment: Payment shall be in accordance with Subsection 604.06.

Payment will be made under:

<u>Pay Item</u>		<u>Pay Unit</u>
604.168	Remove & Reset Catch Basin	Each
604.181	Adjust & Alter Catch Basin to Line & Grade	Each

March 9, 2020

SPECIAL PROVISION
SECTION 609
CURBING

609.10 Basis of Payment is amended with the addition of the following:

<u>Pay Item</u>		<u>Pay Unit</u>
609.221	Terminal Curb Type 1	Linear Foot
609.222	Terminal Curb Type 1 - Circular	Linear Foot

SPECIAL PROVISION

SECTION 626 - FOUNDATIONS, CONDUIT, AND JUNCTION BOXES FOR
HIGHWAY SIGNING, LIGHTING, AND SIGNALS

626.031 Conduit

The third paragraph shall be deleted and replaced with:

All junction or pull boxes shall be vehicle rated (22,000lbs) and installed as shown on the plans. Junction boxes for the traffic signal and communication conduit associated with the project shall be polymer concrete as manufactured by QUAZITE® a division of Hubbell Power Systems or approved equal. The boxes shall be 36" x 24" and 21" deep. The words TRAFFIC SIGNAL or COMMUNICATION shall be stamped on the cover as noted in the Plans or directed by the Resident. All existing junction boxes in useable condition shall be removed and stacked as directed by the Resident.

The fourth paragraph shall be deleted and replaced with:

Where conduits enter exposed junction boxes, they shall be sloped to drain towards the conduit entrance holes, unless otherwise directed. All conduit ends in exposed junction boxes or in concrete foundations shall be fitted with bell ends and sealed. Weep holes of ¼ inch diameter shall be placed in all pull boxes, junction boxes, and fuse boxes.

626.033 Polyvinylchloride Conduit Installation

The following paragraph shall be added:

Exposed conduit shall be rigidly and securely fastened with acceptable fasteners or supports, as indicated on the plans or as approved by the resident. Fasteners or supports shall not be placed more than 6 feet apart on centers, except as otherwise authorized. Conduits shall generally be supported by an approved spacer at the point of support, so that there is an air space between the conduit and the supporting surface. Ends of conduit runs terminating in any box without a threaded hub shall be provided with a metallic locknut and insulated bushings on the inside of the box.

626.034 Concrete Foundations

The following paragraph shall be added after the 10th paragraph:

Any concrete foundation that is damaged during placement or doesn't meet design requirements will be replaced. No repairs to the foundations will be allowed.

SPECIAL PROVISION
SECTION 643
TRAFFIC SIGNALS
(Remove Signals and Structures)

The provisions of Section 643 of the Standard Specifications shall apply with the following additions and modifications:

643.01 Description

The following paragraphs are added:

This work shall consist of the removal and salvage of overhead signal supports, signals and associated hardware, and Rectangular Rapid Flashing Beacon (RRFB) assemblies.

643.07 Demounting Existing Signals and Poles

The following paragraphs are added:

Existing signals located at intersection of Elm Street and Spruce Street (approximately from STA 17+95 LT to STA 18+45 RT) are to be removed and salvaged. The Contractor shall remove and salvage the entire above ground traffic signal system (two mast arm poles (with associate mast arms), one pedestal pole w/ signal equipment, one pedestrian push button and push button pole, mounting brackets, signal heads, controller cabinet) and all associated hardware. The salvaged items shall be delivered to the Biddeford Department of Public Works facility, located at 371 Hill Street, Biddeford, Maine. There will be no separate payment for removal and salvage of any part of the signal system. The contractor is responsible for ensuring that any power supplies and interconnection wires are left in a safe condition, with no power fed to them, as directed by the Resident.

Materials designated to be salvaged shall be carefully removed and protected from damage during storage and transport.

643.071 Demounting and Salvaging Existing RRFB Assembly

Existing RRFB assemblies located along Elm Street, at approximately STA 10+30, RT and STA 10+45, LT, are to be removed and salvaged. The RRFB assemblies designated to be removed and salvaged shall be delivered to the Biddeford Department of Public Works facility, located at 371 Hill Street, Biddeford, Maine.

Materials designated to be salvaged shall be carefully removed and protected from damage during storage and transport.

643.08 Method of Measurement

The following paragraphs are added:

Remove and Salvage Highway Signals will be measured by each signal system removed, salvaged,

and delivered to the appropriate owner.

Remove and salvage RRFB will be measured by each RRFB assembly removed, salvaged, and delivered to the appropriate owner.

643.09 Basis of Payment

The following paragraphs are added:

The accepted removed and salvaged signals, mast arms, controller cabinets and associated hardware and RRFBs will be paid for at the contract unit price lump sum. Such price will be full compensation for the careful removal and storage of the salvaged signal, removal and salvage of the existing signal supports and all associated hardware, transportation and delivery to the owner's location as directed by the Resident, and for all labor, tools, equipment, backfill, and incidentals necessary to complete the work.

Foundations for structures removed will be paid for under Item 626.36 Remove or Modify Concrete Foundation for each foundation removed.

Payment will be made under the following:

<u>Pay Item</u>	<u>Pay Unit</u>
643.1095 TRAFFIC SIGNAL - REMOVE (ELM ST./SPRUCE STREET)	Lump Sum
643.632 RECTANGULAR RAPID FLASHING BEACON – REMOVE (ELM ST. STA. 10+30 RT)	Lump Sum
643.632 RECTANGULAR RAPID FLASHING BEACON – REMOVE (ELM ST. STA. 10+45 LT)	Lump Sum

SPECIAL PROVISION
SECTION 643
TRAFFIC SIGNALS
(Rectangular Rapid Flashing Beacon)

This section is amended by addition of the following:

Description The Contractor shall furnish and install rectangular rapid flashing beacons, including signage assemblies at pedestrian crossings at locations shown on the plans. Their installation shall be as described in this special provision.

Materials Each rectangular rapid flashing beacon (RRFB) assembly shall consist of two rectangular-shaped yellow indications, each with an LED-array based light source. Each RRFB indication shall be a minimum of approximately 5 inches wide by 2 inches high.

Each RRFB signage assembly shall be mounted on an 8-foot-long, 4-inch diameter Schedule 40 aluminum pole with square aluminum base. The base shall meet or exceed all AASHTO breakaway requirements.

Signs for RRFB signage assemblies shall be sheet aluminum and meet requirements of Section 645 for Type II regulatory, warning and route marker assembly signage. The signage assemblies shall include W11-2 pedestrian crossing signs, W16-7p diagonal arrow plaques, and R10-25 pedestrian pushbutton signs.

Pedestrian pushbutton assemblies for activating RRFB indications shall be installed on each RRFB support pole for each crossing approach (if more than one direction). They shall be mounted at 42 inches above sidewalk grade and within 10 inches of the edge of sidewalk. Pushbuttons shall meet Americans with Disabilities Act vibrotactile technical requirements for accessible pedestrian signals (APS). The pushbutton assembly shall include a raised directional arrow indicating the direction of crossing. Audible locator and percussive crossing tones and a speech message are required. Speech message shall be "Main Street. Yellow lights are flashing for Main Street". Speech message shall be repeated at least twice for each pushbutton activation.

Construction and Operation The two RRFB indications in an assembly shall be aligned horizontally, with the longer dimension horizontal and with a minimum space between the two indications of approximately 7 inches, measured from inside edge of one indication to inside edge of the other indication.

The outside edges of the RRFB indications, including any housing, shall not project beyond the outside edges of the W11-2 sign in the beacon signage assembly.

As a specific exception to 2009 MUTCD Section 4L.01 guidance, the RRFB indications shall be located between the bottom of the W11-2 crossing warning sign and the top of the supplemental W16-7p downward diagonal arrow plaque, rather than 12 inches above or below the sign assembly.

When activated, the two yellow indications in each RRFB shall flash in a rapidly alternating "wig-wag" flashing sequence (left light on, then right light on). The flash rate of each individual yellow indication, as applied over the full on-off sequence of a flashing period of the indication, shall not be between 5 and 30 flashes per second, to avoid frequencies that might cause seizures.

The light intensity of the yellow indications shall meet the minimum specifications of Society of Automotive Engineers (SAE) standard J595 (Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles) dated March 2014.

The RRFBs, normally dark, shall initiate operation only upon pedestrian pushbutton actuation, and shall cease operation at a predetermined time after the pedestrian actuation. The duration of operation of the RRFBs following each actuation shall be as noted on the plans. All RRFBs associated with a given crosswalk shall, when activated, simultaneously commence operation of their alternating rapid flashing indications and shall cease operation simultaneously. Communication between the devices shall be spread spectrum wireless.

MUTCD R10-25 pedestrian instruction signage with the legend "PUSH BUTTON TO TURN ON WARNING LIGHTS" shall be mounted adjacent to or integral with each pedestrian pushbutton.

Method of Measurement

All rectangular rapid flashing beacon and sign assemblies associated with a single crosswalk shall constitute a single installation. When a third, intermediate, beacon and sign assembly is provided on a splitter or refuge island between traffic lanes but operates concurrently with other flashing beacons at each end of the same crosswalk without independent activation, the assembly shall be considered part of the total installation for that crosswalk and no additional payment will be made. Rectangular Rapid Flashing Beacon will be measured for payment by each installation complete in place.

Basis of Payment

Rectangular Rapid Flashing Beacon will be paid for at the contract unit price for each complete crosswalk installation, which payment will be full compensation for furnishing and installing all materials including, but not limited to, the RRFB LED arrays, flasher, timer, lockable controller cabinet, poles, foundations, APS pedestrian push button assemblies, crosswalk signage, solar panel, solar engine assembly, radio communication devices and all appurtenances and incidentals required for a complete and functioning installation. Wiring and necessary incidental electrical work and materials will be included in the payment for Item 643.62.

Payment will be made under:

Pay Item

643.621 Rectangular Rapid Flashing Beacon

Pay Unit

Each

SPECIAL PROVISION

SECTION 643 – TRAFFIC SIGNALS

Relevant Sections 643 and 718 of the Maine DOT standard specifications shall be deleted in their entirety and replaced with the following. MaineDOT standards specifications shall be used for items not covered in the following.

SECTION 643 - TRAFFIC SIGNALS

643.01 Description This work shall consist of furnishing and installing traffic signals in the City of Biddeford. Work shall include both new traffic signal installations as well as traffic signal modifications. The work shall include cabinets, poles, foundations, backfill, and all necessary fittings, cables, and components as required to make a fully functional traffic signal and video detection system.

Traffic signal terms shall be in accordance with those defined in the NEC, MUTCD, NESC, NEMA, IMSA and the ITE Standards for traffic control equipment.

643.02 Materials A list of the recommended materials required to install the system may be included as an amendment to this specification, but the Department will give no guarantee as to the completeness of this list. Unless otherwise specified, all equipment and components shall be new and free of defects.

Electrical materials shall meet the standards herein, local and utility codes, and the National Electrical Code, where applicable.

Drawings, manufacturer's specifications and applicable catalog cuts for all materials and components shall be submitted in accordance with Section 105.7 of the MaineDOT Standard Specification within 21 days after award of the Contract. An additional set of final approved documents, to total 6 sets, shall be provided to the Resident / Inspector.

At the conclusion of the project, three complete sets of cabinet prints, one copy of the intersection "as-built" drawings and one complete set of user manuals will be provided and left in the cabinet. The cabinet prints will be an exact representation of the wiring, including field wiring, and programming that is actually present in the controller at the time of acceptance. In addition, one complete set of "as-built" cabinet and intersection prints and one set of user manuals shall be provided on a USB "Thumb Drive" in an editable format (i.e.: DWG) and provided to the Project Resident at the completion of the project.

643.021 Traffic Signal Heads Housings shall be constructed of die cast aluminum or polycarbonate with a smooth outer surface. Housings shall be equipped with Quick Change Kit as manufactured by GGI Road and Traffic. Housings shall be adaptable for pedestal, bracket, or rigid mast arm vertical or horizontal mounting. The assembled housing shall be dust proof and moisture proof. Each housing shall be equipped with a hinged door of die cast aluminum or polycarbonate to hold the lens and parts of the optical units. The doors shall be designed to ensure uniform pressure around the

doorframe when closed. Doors shall be fastened by two hinged wing nut assemblies or other approved fasteners. Unless otherwise indicated on the plans, lenses shall be furnished with approved tunnel visors (not less than 10 inches). If either a longer visor than those specified above or louvers are deemed necessary, they shall be furnished and installed. All traffic signals shall be furnished with a 5-inch backplate with a factory applied 2" diamond grade retroreflective border. Backplates shall be louvered aluminum coated flat black, be fastened with stainless steel hex head slotted screws and a 3/16 inch by 3/4 inch stainless steel fender washer. Polycarbonate signal housings shall be manufactured by Mobotrex, Inc model SG, or an approved equal. Aluminum signal housings shall be manufactured by Mobotrex, Inc model SG, or an approved equal.

The assembled housings shall be made up of individual sections fastened together with bolts; the assembly of sectional units shall present a smooth unbroken contour of pleasing appearance. Each end of the housing assembly shall have an opening for a 1-1/2-inch pipe nipple. The area around this opening shall be reinforced and serrated so that lock nuts will seat firmly.

One cap shall be supplied with each assembled housing to act as a cover over the hole in the top to prevent water from entering.

Housing adapters for pedestal mounting shall be constructed of cast iron. They shall be adjustable with serrated surfaces to permit the housing to be locked in the desired horizontal position. The adapters shall be secured to the bottom of the housing by means of a close nipple, shall slip fit at least 7 inches over a standard traffic signal post of 4 inches in diameter and shall be secured to the post by a minimum of four set screws. Adapters shall contain raceways from the housing to the post to protect the wires from the elements.

Mast arm brackets shall be cabled with "Galaxy Type Astro-Brac" by Pelco or an approved equal. The use of U-bolts to connect the tube to the mounting assembly will not be allowed.

LED lamps shall have a regulated power supply designed to electrically protect the diodes. The lamp shall be water tight and sealed to eliminate contaminants. The lamp shall be capable of operating at ambient air temperatures of -40° F to 140° F. LEDs shall be a 120 VAC LED module as manufactured by Leotek or an approved equal. All LED lamps shall have a date code not to exceed 6 months prior to the start of construction.

Each LED module shall be wired with two leads which shall terminate at the terminal block in each signal head. Separate leads shall be used to wire the block to the base. LED module leads shall be 18 AWG stranded wire with spade type copper terminal ends. All colors shall be bright and clearly defined and cover the insulation the entire length of the lead. The color of these leads shall be as follows:

- (a) From the receptacle behind the red lens: one red wire and one white wire with an optional red tracer;
- (b) From the receptacle behind the yellow lens: one yellow wire and one white wire with an optional yellow tracer;

- (c) From the receptacle behind the green lens: one green or brown wire and one white wire with an optional green or brown tracer.

LED lamp life shall be a minimum of 100,000 hours of continuous operation. Power consumption for 12" indications including power supply shall not exceed 10 W.

LED modules shall conform to the standards set forth by the Institute of Transportation Engineers and shall be of the color indicated, circular in shape, with a visible diameter of approximately 12 inches.

643.03 Traffic Signal Poles, Mast Arms, and Pedestals Section 720 of the MaineDOT Standard Specifications shall apply unless otherwise noted.

Steel Structures. Section 720.04 of the Standard Specifications shall apply.

Concrete foundation shall be concrete Class A meeting the requirements of Section 502 of the Standard Specifications - Structural Concrete. Reinforcing steel shall meet the requirements of Section 503 of the Standard Specifications – Reinforcing Steel. The foundations shall be as shown on the plans.

Anchor bolts. Section 720.07 of the Standard Specifications shall apply.

Mast-arm structure and foundation (when required) design calculations and shop drawings shall be submitted for documentation in accordance with Section 105.7 of the Standard Specifications.

Wood Utility Poles. Section 720.10 of the Standard Specifications shall apply.

Messenger cable and guy cable shall be a minimum seven strand, 5/16-inch diameter wire with a breaking strength of 8,000 pounds, double galvanized in accordance with AASHTO M 111.

Aluminum Structures. Sections 720.01 and 720.02 of the Standard Specifications shall apply.

Traffic Signal Controllers and Cabinets.

643.04 Cabinet Configuration The cabinet configuration shall consist of the following equipment:

- 1x Controller
- 1x MMU1x Detector Rack
- 1x Loop Input Panel
- 3x BIU
- 1x Cabinet Power Supply
- 16x Load Switches.
- 1x Flasher Units.
- 8x Flash Transfer Relays

643.041 Traffic Signal Controller. The controller shall be a EPACM60 as manufactured by Yunex Traffic. The controller shall be capable of operating in a NEMA TS1, NEMA TS2 type 1, NEMA TS2 Type 2 or ATC cabinets. The controller shall include a slot for an ATC Communications Module a receptacle for a data key, an adapter to go from a TS2 Type 1 to TS2 Type 2 “A” connector The controller shall also include an ATC communications card if appropriate to the cabinet.

643.042 Controller Cabinet and Bench Test. The controller cabinet shall be an Eagle ELS1008 Stretch P Cabinet with an Eagle TF 5016 backpanel. Every cabinet shall include a 12-inch extension base. The Contractor shall arrange to have the controller cabinet shipped directly from the manufacturer to Biddeford Public Works where the Contractor shall set up cabinet for bench testing.

All components of the controller and cabinet shall be bench tested for a minimum of 72 continuous hours by the Contractor at the City’s facility. A representative of the Department shall verify the test check list. The Contractor shall notify the Department at least 3 days prior to testing as to the date and time that tests are to be performed. Testing shall be performed by an IMSA level 2 qualified Signal Technician using a test board and in conformance with the design loads, phasing, timing and auxiliary equipment such as pre-emption phases. Any defective component shall be replaced, retested and continuous testing continued. Test results shall be documented on a check list as provided by the Department and these results attested by the signature of the performing technician. Upon completion of satisfactory bench testing, a written approval will be supplied to the Contractor by the Department for delivery to the project only. This approval does not relieve the Contractor from ensuring proper operation of the equipment. The approval shall accompany the cabinet and controller when delivered to the project.

The checklist will contain the following items:

- (a) Install all of the equipment into the cabinet as required per the plans and specifications.
- (b) Set the phase timings of the controller in accordance with plans.
- (c) Wire in 120 VAC Cabinet Test Display to the load switches in simulation to the intersection as per the plans.
- (d) Check all of the wiring connections for physical tightness.
- (e) Power up the cabinet.

- (f) Observe the sequences, timings and operations of the controller in conformance to the plans and specifications.
- (g) Using the phase test push buttons, insert a call for a phase and observe this phase as it is being called for sequencing, timing and returning to rest condition. Only one separate call for each phase shall be used.
- (h) Test the police panel switches, manual, on/off, flash/auto and test the police manual cord if present in the panel.
- (i) Test for Fire Pre-emption - Optical Detector - with the receivers wired in the cabinet and using an emitter, test each fire run as per the plans. Hard Wired - Attach a temporary push button as per the plans and test each fire run as per the plans.
- (j) Check exhaust fan controls by applying heat from a 100-watt lamp on an extension cord to the thermostat.
- (k) Check conflict monitor by testing for any conflicting Greens or Yellows by the use of a jumper wire attached to a displayed Green or Yellow and to the other non-parent Greens or Yellows to ascertain that conflicting colors are not present.

When all of the above procedures have been completed, the performing technician shall document the results on the approved form as provided by the Department.

The cabinet shall be furnished with a resealable plastic print holder containing the materials as noted in 643.02. Print holder shall be mounted on the inside of the door with two grommets that provide mounting to two integrated hooks installed on the back side of the main cabinet door. The heavy-duty plastic envelope will be used to store cabinet wiring diagrams and operations manuals that cannot be accommodated in the pull-out drawer storage tray. Upon completion of the project, a printout of the databases contained in the controller, CMU, Fire Preemption, Video Detection or any other equipment shall be provided to the Department. The databases can be provided either via a hard copy printout or on a "thumb drive."

The traffic signal control equipment shall be enclosed within a dust and moisture-proof aluminum housing with an auxiliary door in door feature. The door hinge pins shall be made of stainless steel.

The cabinet shall be supplied with a global positioning system (GPS) antenna to provide an accurate time reference for the cabinet. The antenna shall be mounted at the top of the cabinet in the back-left corner of the enclosure. The antenna shall be mounted such that it provides a waterproof seal; eliminating any possibility for water penetration into the cabinet. The GPS system cable shall be connected and integrated into the controller. This will not be required if cabinet is part of a network system

The cabinet shall be supplied with a police door panel located in the middle area of the front door. The switches shall be mounted in the police panel and labelled as to function. Four switches shall be supplied as follows:

- 1. Power On/Off
- 2. Signal On/Off
- 3. Signal/Flash
- 4. Manual/Auto with cord

The manual control cord shall be a coiled type, sealed weather proof covered hand switch extending to six feet when fully stretched. The cord shall be fastened to the cabinet via a compression type connector to provide strain relief for the cord's electrical connections. The

police door panel shall be of sufficient size so as to store the manual control cord when panel door is closed.

The cabinet shall be supplied with a technician's panel mounted on the back of the police panel. This panel shall be supplied with the following switches:

1. Controller On/Off
2. Flash/Auto (Allows the controller to cycle while flashing)
3. Signals On/Off (Allows the controller to cycle with signal displays being dark)
4. Stop Time Normal/On (Provides the ability to manually activate a controller stop time input)

The cabinet shall be supplied with white LED light panels mounted under each shelf which shall automatically illuminate via a door open switch whenever the cabinet door is opened. The LED panels shall produce a minimum of 1,000 lumens and be protected by a clear shatterproof shield. A second door open status switch shall activate a controller input to log a report event that the door was opened.

All cabinets shall be provided with a thermostatically controlled ventilating fan and throwaway glass fiber air filters. The electric fan shall have ball or roller bearings and shall have a capacity of 100 ft³ per minute. The fans shall be rated for continuous duty with a minimum service life of 3 years. The fan blades shall be supplied with a safety screen to prevent accidental contact with the blades. The ventilating system shall be designed to prevent the entrance of rain, snow, dust, and insects. The fan and vents shall be arranged in such a manner that the air intake is at the cabinet bottom and the exhaust is at the cabinet top. The air intake shall be rain tight and covered with a removable filter. The removable air filter shall be firmly held in place such that cracks and openings are eliminated to ensure that all air is filtered. The cabinet shall contain two fans. The thermostat shall be mounted on the top interior of the cabinet and user adjustable to allow for temperature settings from a minimum of 70 degrees F to 140 degrees F and capable of activating the fans within plus or minus five degrees of the set temperature.

The cabinet shall contain a pull-out drawer, 24" wide with sufficient strength to hold a laptop computer. The top of the drawer shall be covered with a non-conductive, non-skid material and hinged such that a storage space is available to store cabinet documentation or small parts. The pull-out shelf shall be located directly under the bottom shelf of the cabinet.

All manual control switches, push button control, flashing switch, signal switch and any other specified switches shall be located to be accessible within the outside door, without exposing the controller mechanism.

The cabinet shall be supplied with a laminated door sticker. This sticker shall be permanently affixed to the inside of the cabinet door. At a minimum, the sticker shall contain the following information:

- Vehicle detection information including detector channel assignment, phase assigned, approach and cabinet termination points.
- If applicable, network communications information for all in-cabinet devices. This includes IP addresses, subnet mask and MAC address.
- Per approach preemption information including channel, approach/direction and termination points.
- Field termination chart showing per approach/per phase numbering of all signal circuits.
- Signal phasing and signal plan with intersection geometry and signal head designations.

The locks for the switch compartment door of the cabinet shall unlock with a skeleton style (#1) key. The locks for the main doors of the cabinet shall unlock with a Corbin #2 key. Two sets of two keys (main door/switch door) shall be furnished with each cabinet.

The cabinet shall be supplied with a permanent label mounted on the upper portion of the inside front main door which contains the name of the cabinet manufacturer, controller manufacturer, model/part number and year/month of assembly. All traffic signal controller cabinets shall be supplied with a GFCI duplex outlet, as well as a multi-outlet strip hardwired in to the auxiliary breaker.

The cabinet shall be supplied with a generator panel. The generator panel shall consist of a manual transfer switch and a twist-lock connector for generator hookup. The transfer switch knob and twist-lock connector shall be located inside a generator access panel with a separate lockable door mounted on the lower left, exterior of the cabinet. The door shall be equipped with a tamper resistant hinge. The generator panel assembly shall be housed in a heavy-duty, vandal resistant, weatherproof, dustproof enclosure designed for exterior applications. The generator access panel door shall have a moveable plate to cover an opening for the generator cable. The connection to an external generator shall be a waterproof, secure connection. The connection shall allow authorized personnel to access, connect and secure an external electrical source to the cabinet for power restoration. The generator panel door shall contain a weather proof seal and supplied with a lock accessed with a skeleton style (#1) key.

The cabinet shall be supplied with an electric service meter socket trim and electrical service disconnect switch mounted on a separate pedestal pole. The meter pedestal shall be as indicated on plans. All wiring shall comply with all applicable local electrical codes as well as the National Electric Code.

The cabinet main doors shall be provided with a stop to limit door opening to both 90 degrees and 180 degrees, ± 10 degrees. The door stop bar shall be a captive type mechanism that serves to keep the bar in contact with the cabinet at both stop bar ends and provided with a catch that can be operated when the door reaches these 2 positions and will hold the door open securely until released. The cabinet shall be supplied with a three-point draw roller latching system consisting of the following latching points:

- Center of the cabinet (lock)
- Top of the cabinet – controlled by door handle
- Bottom of the cabinet – controlled by door handle

The latching points on the top and bottom of the cabinet door shall remain in the locked position until the door lock is disengaged. The locking mechanism shall be equipped with nylon rollers to secure the top and bottom of the door. The cabinet shall be supplied with a 3/4" diameter shank, stainless steel latching handle for each door. The latching handle shall have a provision for padlocking the door in a closed position.

Controller cabinets shall have a pliable seal composed of caulking compound or mastic placed between the cabinet base and the concrete foundation to prevent dust and dirt from entering the cabinet.

The Contractor shall reconfigure the default user name and passwords on all communications / control equipment within the Cabinet. This includes but is not limited to the traffic controller, MMU, any ancillary equipment, video detection equipment, Ethernet switches, and routers. The new user-name and passwords shall be created in coordination with the Resident ; no manufacture default level passwords shall be allowed. The Contractor shall utilize network communications encryption settings on all forms of wired Ethernet data paths. No "in the clear"

communications shall be allowed. At a minimum all wired Ethernet connections shall meet 802.1AE standards.

The field electrical loading for flash operation shall be wired through the transfer relays such that the load on the flasher is as balanced as possible within the limitations of the signal phasing.

Electrical filtering/surge protection shall be supplied and installed in each cabinet in accordance with NEMA TS2-2016 specification and the manufacturer's recommendations. At a minimum, surge suppression shall be provided for incoming electric utility power conductors, all signal control circuits, vehicle detection, pedestrian detection, communications and preemption system terminations.

Three copies of the database programming for all in cabinet devices shall be provided with each cabinet. The database programming sheets shall reflect as-built programming resident in each unit at the time of acceptance.

The Malfunction Management Unit (MMU) shall be connected to the field terminals of the signal light circuit to provide protection against conflicting green, yellow or walk indications being simultaneously energized as a result of controller failure, relay or solid-state switch failure, short circuited field wiring or other failures. When a conflict is detected, the MMU shall cause the signal system to commence flashing operation; energize the stop-timing circuit of the controller while controller power shall remain on; lock-in flashing operation until manual actuation of the momentary contact reset push button resident on the MMU.

The main cabinet circuit breaker shall be rated at 30 amps. Circuit breakers shall be approved and listed by the UL. The operating mechanism shall be enclosed and shall be trip free from operating handle under load and shall be trip-indicating. All circuit breakers shall be quick-make, quick-break on either automatic or manual operation. Contacts shall be silver alloy enclosed in an arc quenching chamber. Overload tripping of breakers shall not be influenced by an ambient temperature range of from 0 to +158 degrees F.

643.05 Fire Pre-emption. Fire pre-emption shall be activated by optical detection equipment with optical detectors. Fire pre-emption shall clear the existing phase through a normal clearance followed by the fire phase as shown on the plans for the minimum time specified. The fire phase shall give a green in the called direction; the confirmation light shall be activated only during the fire pre-emption phase, after the call phase is satisfied. Upon release of the fire pre-emption, the controller shall provide a green to the major movement. Phase selector will be Tomar model 4140V2-4 only. All software and cabling from the manufacturer will be supplied to the Department to allow communication to the device with a PC.

Preemption receivers will be Tomar 4090 series only, as required. Receivers shall be mounted in the detection rack. The use of an auxiliary rack will not be permitted.

The confirmation light shall be operated by a load switch (ie channel #9 Yellow).

Confirmation light shall be a self-contained 120 VAC industrial strobe light beacon with a weather-resistant, fully enclosed, rugged, cast aluminum base and lexan red optic lens as manufactured by TOMAR model 804.

Optical detector locations shall be verified by the Department to assure optimum reception. Optical detector cable shall run unspliced from the optical detector head to the controller cabinet.

Each optical detector lead-in cable shall be marked with plastic tape. The fire preemption shall correspond to the following chart associating the fire preemption call with its corresponding phase:

PREEMPTION PHASE CODE

Preempt 3	Phases 1 & 6
Preempt 4	Phases 2 & 5
Preempt 5	Phases 3 & 8
Preempt 6	Phases 4 & 7

643.06 Detection.

643.061 Cabinet Component Spares The following will be provided as spare equipment:

Two BIUs, one Cabinet Power Supply, one MMU with jumper card, four load switches, one flasher and two Flash Transfer Relays.

643.07 Contacts. All contacts used in connection with interval indications shall be of pure coin silver or equivalent and shall be capable of breaking and carrying 15 A at 125 V alternating current. The contacts shall be readily accessible and capable of being replaced in the timer without the use of any tools other than pliers and screwdrivers.

643.10 Radio and television interference. Electrical equipment shall be prevented from interfering with radio and television reception.

643.11 Cable and Wire. Cable shall be plastic covered cable meeting the applicable requirements of the International Municipal Signal Association (IMSA) specifications. The conductor color coding shall not be by means of printed code. All wiring shall be new. Reuse of existing cable will not be allowed. Actual color coding shall be used. The minimum size wire for the circuits shall be as follows:

Minimum A.W.G. #

(a) Service to Controller	4 Stranded
(b) Controller to Pole or Pedestal	12 Stranded
(c) Controller to Luminaire	10 Stranded
(c) Pole or Pedestal to Receptacles	14 Stranded
(d) Equipment Grounding Conductor	8 Stranded

Each lead-in cable shall be marked with plastic tape corresponding to the following color code to identify which phase it pertains to at the splice(s) in both the pull box(es) and in the cabinet.

PHASE COLOR CODE

Phase 1	1 Blue
Phase 2	1 Green
Phase 3	1 Yellow
Phase 4	1 Red
Phase 5	2 Blue
Phase 6	2 Green
Phase 7	2 Yellow
Phase 8	2 Red

Traffic signal conduit, pull boxes, frames, and covers shall conform to Section 626 of the Standard Specifications as amended by this specification. Conduit for all lines shall be 3 inch in diameter unless noted on the plans. Unless otherwise noted, all conduits shall be schedule 80 PVC.

643.12 Painting. Prior to erection and assembly, if not manufactured of polycarbonate material, the entire traffic or pedestrian signal housing and visors shall be painted with an approved zinc-rich primer and a finish enamel coat of federal black No. 17038.

643.13 Backfill for foundations. Unless otherwise ordered, backfill for foundations shall be material conforming to the requirements of Section 203.26 of the Standard Specifications – Gravel Borrow.

643.14 Construction Requirements. All traffic signal and electrical installations shall comply with the requirements specified herein, local and utility codes, MUTCD, and the National Electrical Code (NEC).

A preconstruction meeting with the Contractor, signal Subcontractor (if applicable), Resident and a City representative shall be arranged not less than 3 days prior to the start of signal installation, to resolve any problems.

Any operating traffic signal shall be left in a non-flash operating condition at the end of each work day, with or without detection.

The signal Subcontractor shall notify the Department no less than 3 days prior to final inspection of signal installation. This final inspection is required prior to signal activation.

Each signal head, detection device or sign mounted on a mast arm shall be installed with a 1/8-inch diameter aircraft cable, looped around the mast arm and mast arm bracket, as a safety device to prevent the item from falling. Cable ends shall be fastened by two opposing "U" clamps. When suspended by this cable, the top of the item being suspended shall be no more than 6 inches below the bottom of the mast arm.

All conduit lines necessary shall be constructed for the proper operation of the signals and shall conform to Section 626 of the Standard Specifications and the 626 special provision herein.

All conduits terminating in the cabinet shall be sealed with duct sealant.

Concrete foundations with anchor bolts to secure the traffic signal structures, flasher or controller cabinets, and meter pedestals, shall be installed at the locations specified on the plans. The concrete foundation for the controller cabinet shall be raised a minimum height of 3 inches up to a maximum height of 18 inches above the finished surface or as directed by the Resident. Chamfer strips shall be used on all signal controller cabinet foundations. Forms shall be inspected before concrete is placed.

Poles shall not be mounted on the leveling nuts until the concrete has cured for at least 7 days or attained a minimum of at least 80 percent of its design compressive strength.

Protection shall be provided for the wiring from rodents and other elements as approved by the Department and/or as shown on the Plans.

Prior to placing the controller cabinet on its foundation, silicone sealant shall be applied to the area of contact.

The Contractor shall use bolt pattern templates when setting mast-arm anchor bolts, signal pedestal bolts and controller cabinet mounting bolts. The templates shall remain in place for a minimum of 24 hours.

Wood poles shall be placed in the ground to a depth of 20% of their overall length, with a maximum deviation from the vertical of 1/4 inch in 5 feet.

Wood poles with a back-guy cable shall be placed in the ground to a depth of 20% of their overall length. Poles shall be back-guyed using a 10-inch expanding anchor with a 3/4-inch by 96-inch anchor rod. Thimble eyes of anchor rods shall extend 12 inches above finish ground. Cable used for back-guying shall be attached to the anchor rod by a short bail automatic type grip and to the guy hook on the pole by a preformed type grip. The pole shall be drilled 14 inches from top and a 5/8-inch oval eyebolt installed with one square flat washer and square nut on the messenger side and one square washer, square nut and guy hook on the opposite side. Any guy wire, messenger wire or span wire installations done on Utility Company poles shall follow Utility Company requirements.

643.141 Service and Meter Box. Whenever a service connection is to be made, the Contractor shall contact the Utility Company involved and inform them of the location, pole number, and time proposed for the service connection.

After the completion of an Arc Flash study by a qualified technician the traffic cabinet shall be marked with an appropriate arc flash plaque or decal with the following information:

1. Flash hazard boundary
2. Cal/cm² hazard at 18 inches
3. PPE level
4. Shock hazard when cover is off
5. Limited approach boundary
6. Restricted approach boundary
7. The prohibited approach boundary

This shall be located on the outside of the equipment and shall be visible, weatherproof, and fade resistant, and not easily removed.

The Contractor shall be responsible for all outstanding bills for preliminary work done by the Utility Company during the installation of the traffic signal system, to facilitate the service connection.

A service ground rod shall be installed if the service meter trim is not grounded. A total of four (4), 10-foot service ground rods shall be installed and properly connected together in the cabinet. No ground rods shall be installed through the cabinet foundation. Connections between the ground wire and ground rods shall be made by way of a Cadweld. "Acorn" or other mechanical type of connection shall not be allowed. The Contractor shall be responsible for grounding the system to 5 ohms or less tested without an electrical connection to the utility neutral or ground conductor. The grounding shall be performed using a ground meter with reference grounds. In the event that a 5-ohm reading is not achieved, the Contractor shall install a chem-rod grounding electrode in close proximity to the cabinet. The chem-rod shall be properly connected to the four-rod grounding system in the cabinet. The chem-rod shall consist of a 10- foot copper rod (vertical or horizontal orientation) filled with common salt and desiccant, back filled with natural earth bentonite clay ground enhancement material. The chem rod shall be installed per manufacturer's instructions. The location and orientation for the chem-rod installation shall be approved by the Resident. All testing shall be done in the presence of the Resident.

All meter mounting devices shall be installed so that the meters will be upright (plumb). They shall be installed with the top of the meter not less than 48 inches nor more than 60 inches from the ground to the final grade. Exceptions to this height requirement will be made where special permission has been given to install group or modular metering, overall metering enclosures, or pole-mounted meters. Level grade shall be maintained for a minimum of 3 feet in front of the meter enclosure to provide a safe working space. In order to meet this requirement on uneven terrain, as an option, the Contractor may install a pressure-treated wood platform.

For any non-residential (industrial or commercial) self-contained meter socket the bypass requirements are single phase, 100- or 150-amp, single handle lever operated.

643.142 Signal Cable and Wire Installation. The Contractor shall furnish and install sufficient cable and wire to operate the system properly and at least 4 spare conductors in each cable run

shall be provided. Pulling a separate cable to achieve the required number of spares will not be allowed.

Each mast arm assembly shall have a dedicated cable run from the controller cabinet.

No more than one cable shall be permitted in a conduit except to eliminate splices in pull boxes. When more than one cable is permitted the area of combined cables shall not exceed 30 percent of the inside area of the conduit.

Messenger cable shall run unspliced between poles and shall be installed with a 5 percent sag in the wire when measured from the point of attachment to the middle of span. The cable shall be attached to the pole eyebolt by a preformed type grip on one end and an automatic type grip on the opposite end. Messenger cable shall be grounded to the back-guy cable.

Signal bases, housings and controllers shall be furnished and installed as required. All structures and housings shall be plumb after erection.

Multiple housings on a single post shall be grouped together using 1-1/2 inch galvanized pipe and 1-1/2 inch galvanized rail fittings. All attachments to the posts shall be made by means of adapters conforming to the following. Housing adapters for pedestal mounting shall be constructed of cast iron. They shall be adjustable with serrated surfaces to permit the housing to be locked in the desired horizontal position. The adapters shall be secured to the bottom of the housing by means of a close nipple, shall slip fit at least 7 inch over a standard traffic signal post of 4 inches in diameter and shall be secured to the post by a minimum of four set screws. Adapters shall contain raceways from the housing to the post to protect the wires from the elements. The center of all housings shall be in the same horizontal plane.

Miscellaneous electrical equipment. All additional electrical fittings, service conduit, switches, fuses, traffic signal bulbs, and such other hardware as is necessary to properly and securely install the equipment shall be furnished. All electrical fittings shall be weatherproof.

Wiring and connections. All connections shall be spliced, soldered, taped, rubber taped, taped and compounded with 3M Scotch-Kote. The use of wire nuts will not be permitted. The following color code shall be used:

(a) Red Wire	Red, Artery
(b) Orange Wire	Yellow, Artery
(c) Green Wire	Green, Artery
(d) Red with tracer	Red, Side Street
(e) Orange with tracer	Yellow, Side Street
(f) Green with tracer	Green, Side Street
(g) White	Neutral for all signals
(h) Blue	All steady burning arrows
(i) Blue with tracer	Intermittent arrows
(j) Remaining	Push buttons and spares

Note: The white wire shall be used for all neutral connections and shall be connected to the service ground.

No street lighting splices will be permitted in the mast-arm shaft. Splices for street lighting and lightning arrestors shall be located inside the nearest street light pull box.

Ground connections. All installations and equipment shall be bonded and grounded to the service ground rod in accordance with the requirements of the electric power company.

Each signal cable run shall be installed with one green plastic covered copper ground wire to which all equipment shall be bonded in accordance with standard practice. Each base and post, cabinet, and any other component that would be considered a part of the signal system shall be bonded to the ground wire. This ground wire shall be connected to the ground rod at the controller cabinet.

643.1431 Painting. All paint shall conform to Section 708 of the Standard Specifications. The following colors of enamel shall be used:

(a) Controller Cabinet	Outside: Natural Aluminum
(b) Housings	Black (2)
(c) Visors	Inside: Black (2); Outside: Black (2)
	Federal No.
(1) Green Enamel =	H8-577
(2) Black Enamel =	17038
(3) Federal Yellow Enamel =	13538

After the signals have been completely installed, two coats of enamel shall be applied to all unpainted or scratched surfaces after the surface has been lightly sanded to remove gloss.

643.144 **Installation of signals and equipment.** The signals and equipment shall be installed by competent workmen or the manufacturer's representative.

Prior to placing the signals in operation, the signal housing shall be hooded with approved non-transparent material or turned to clearly indicate that the signals are not in operation.

Signs mounted on the signals not applicable to construction conditions shall be covered as specified in Section 645 of the Standard Specifications.

All material including poles, foundations, fittings and cable shall be supplied and installed to make a complete operative installation.

Signs installed on signal arms shall be mounted with "Galaxy Type Astro Sign Bracs" at a right angle to the roadway. Signs mounted on span wire shall be mounted with Pelco "Span Wire Sign Hangar Assemblies," or equal.

643.145 Operation. The Contractor shall commence the operation of the signal system only when permitted by the City and the Resident. Unless otherwise noted, signals shall be placed in flash a minimum of 1 week before the planned start of operation. New signals shall be made operational between the hours of 10:00 AM and 2:00 PM unless approved by the Resident or the City.

Operating sequences shall be as shown on the plans or ordered.

Operating sequences shall be verified by testing.

In cooperation with the Fire Department, the Contractor shall make trial runs to ascertain proper timing of the fire pre-emption system. The minimum time shall be approved by the Chief of the Fire Department or the Chief's representative.

The Contractor shall provide a qualified technician to thoroughly review and confirm that the system is satisfactory and operational as designed. Prior to the final inspection, the Contractor shall have a review with the City's Public Works representative, the Department's Resident, and local officials (including Fire Department technician) to review and comment upon the system.

643.146 Warranty. Upon completion of the project, the Contractor shall forward to the Department all warranties to the purchaser that the equipment which has been installed hereunder shall be free from defects in materials, workmanship and title, and shall be of the kind and quality designated or described in the Contract. The foregoing warranty supersedes all other warranties whether written, oral, or implied. If it appears within 24 months from the date of Acceptance of the work that the equipment installed hereunder does not meet the warranties specified above, the Contractor shall promptly correct any defect or nonconformance with the specifications. This warranty does not relieve the Contractor of the requirement of Section 106 of the Standard Specifications.

643.15 Field Tests. Before acceptance of the work, the Contractor shall conduct the following tests on all traffic signal equipment and circuits. Testing shall be performed by a licensed electrician. The tests do not need to be performed in the presence of the Resident or the City, but the test results shall be recorded on the Traffic Signal Quality Control Check List and submitted to the Town and Resident by the Contractor for acceptance. The form shall be signed by the licensed electrician certifying that the signal equipment and circuits meet the requirements of section 634.09.

- a. Continuity. Each circuit shall be tested for continuity.
- b. Ground. Each circuit shall be tested for grounds.
- c. Megger. Megger tests at 500 volts DC shall be made on each circuit between the circuit and a ground. The insulation resistance shall not be less than 10 megaohms on all circuits, except for inductive loop detector circuits, which shall have an insulation resistance value of not less than 100 megaohms.
- d. Loop Inductance. A loop test meter shall be used to determine that the inductance of the installed loop and lead-in are within the tuning range recommended by the loop detector manufacturer.
- e. Functional. A functional test shall be made in which it is demonstrated that each part of the system functions as specified. The functional test for each new or modified traffic signal and flashing beacon shall consist of not less than 10 days of continuous satisfactory operation. If unsatisfactory performance of the system develops, the condition shall be corrected and the test shall be repeated until the 10 days of continuous satisfactory operation is obtained.

Before initial operation, all equipment shown on the plans shall be installed and operable. Initial operation of new or modified traffic signal systems shall be made only after all traffic signal circuits have been thoroughly tested as specified above.

During the test period all costs except electrical energy shall be the Contractor's responsibility. Functional tests shall start on any working day except Monday, Friday, Saturday, Sunday or the day preceding a legal holiday. Shutdown caused by a power interruption shall not

constitute discontinuity of the functional test, however, the test shall continue after power is restored.

643.51 Power and SDLC Bus Panel. The Power and SDLC BUS Panel shall be manufactured from 1/8 inch, 5052-H32 aluminum. It shall provide a central location to supply filtered power for the controller, malfunction management unit, cabinet power supply, and all auxiliary equipment. All SDLC Bus connections shall be made via an SDLC Hub Assembly.

All cabinet equipment requiring filtered power to operate shall be hardwired directly to the supplied barrier type terminal blocks on the Power and SDLC BUS Panel.

All AC+ power sources shall be protected with a removable plastic cover plate.

An SDLC Hub Assembly shall include a minimum of five and maximum of eight D-Subminiature Female 15 pin (DB15) connectors that are wired in series.

643.52 Detector Rack. A minimum of one Loop Detector rack shall be provided in each cabinet. Detector racks shall be shelf mounted on the top shelf of the cabinet and shall support up to 16 channels of loop detection (either eight 2 channel detectors or four 4 channel detectors), 4 channels of preemption devices (either two - 2 channel devices or one – 4 channel device) and one BIU.

All connections to the back of the detector racks to the detector cards shall be soldered to a 44 terminal, double row, 0.156-inch contact spacing, Cinch Jones card edge connector 50-44A- 30M, or equivalent centered vertically for each detector module. All designations shall correspond to the requirements of the TS2-2003 specification. Card Guides shall be provided on the top and bottom of the card rack for each connector position.

Each cabinet shall contain a detector interface panel per each detector rack for the purpose of connecting field loops and vehicle detector amplifiers. The panels shall be manufactured in the fashion of a printed circuit board and mounting holes shall be provided to allow for the soldering of potential lightning protection devices. Loop field terminals shall be protected from inductive transient surges by a suppression device. All detector terminals shall be identified by number and shall correspond with the cabinet print. Each interface panel shall allow for the connection of sixteen independent field loops. A ground bus terminal shall be provided between each loop pair terminal to provide a termination for the loop lead-in cable ground wire. Each interface panel shall provide a barrier style terminal block to terminate the field wires for up to two 2-channel preemption devices.

One 16-position interface panel shall be provided for a 16-channel rack cabinet. The vehicle detection panel shall be installed on the left side of the cabinet; the bottom edge shall be 10 inches from the mounting flange.

Connection between the interface panel and the detector rack shall be made with a ribbon cable and each end shall have a modular plug that mates to a corresponding modular / locking receptacle on the rack and interface panel.

All termination points shall be identified by a unique number and silk screened on the panel. Each detector rack shall accommodate rack mountable preemption devices such as Opticom.

643.53 Load Switches. Load switches shall be solid state and shall conform to the requirements of Section 6.2 of the NEMA TS2 Standard.

Signal load switches shall have a minimum rating of 10 A at 120-VAC for an incandescent lamp load.

The front of the load switch shall be provided with six indicators to show the input and output signal from the controller to the load switch.

Load switches shall be dedicated per phase. The use of load switches for other partial phases is not acceptable except under the provisions of the second paragraph of Section 643.07 of this Special Provision.

The full complement of load switches shall be supplied with each cabinet to allow for maximum phase utilization for which the cabinet is designed.

The back panel shall have 16 load switch sockets completely wired including MMU. All terminals shall be labeled for identification corresponding to the back panel print.

643.54 Flash Transfer Relays and Flasher. All flash transfer relays shall meet the requirements of Section 6.4 of the NEMA TS2 Standard.

The coil of the flash transfer relay must be de-energized for flash operation.

The full complement of relays shall be supplied with each cabinet to allow for maximum phase utilization for which the cabinet is designed. The relay sockets shall be wired as follows:

<u>Relay</u>	<u>Assignment</u>
Flash Relay 1	Load Switch 1 and 2
Flash Relay 2	Load Switch 3 and 4
Flash Relay 3	Load Switch 5 and 6
Flash Relay 4	Load Switch 7 and 8
Flash Relay 5	Load Switch 9 and 10
Flash Relay 6	Load Switch 11 and 12
Flash Relay 7	Load Switch 13 and 14
Flash Relay 8	Load Switch 15 and 16

The cabinet shall be supplied with two (2) NEMA Type 2 solid state cube type flashers.

The flasher shall be solid state and shall conform to the requirements of Section 6.3 of the NEMA TS2 Standard. The signal flasher shall be mounted on the back panel.

Flashing of field circuits for the purpose of intersection flash shall be accomplished by a separate flasher.

The flasher shall be rated at 15 amperes, double pole with a nominal flash rate of 60 FPM.

643.55 Vehicle Detector Test Panel. A vehicle detector test panel shall be surface mounted on the interior side of the cabinet door; a push type test button shall be labeled and furnished for each phase as well as preemption. Pushing the button shall cause a detector call to be placed on the controller for as long as the button is held. Test panel wires shall be enclosed in a cable harness.

643.56 Malfunction Management Unit (MMU). Each cabinet assembly shall be supplied with one MMU as defined by the requirements of Section 4 of the NEMA TS2 Standard. The MMU shall retain, at a minimum, complete information on the last 9 events including which channels were active, the date and the time. The assignment of conflicting channels shall be by means of a standard NEMA program card. The MMU shall be wired to detect absence of voltage on all channels. The MMU shall have an RS232 serial port and / or an Ethernet port for downloading. All software and cabling from the manufacturer will be supplied to the Department to allow communication to the device with a PC.

Malfunction Management Units shall be a Type 16. The MMU shall be an EDI Model MMU2-16LE(ip) or approved equal.

643.57 Bus Interface Units (BIU). All BIUs shall meet the requirements of Section 8 of the NEMA TS2 Standard.

The full complement of EDI Model BIU700, or an approved equal, shall be supplied with each cabinet to allow for maximum phase and function utilization for which the cabinet is designed.

Each Bus Interface Unit shall include power on, transmit and valid data indicators. All indicators shall be LEDs.

643.58 Cabinet Power Supply. The cabinet power supply shall meet the requirements of Section 5.3.5 of the NEMA TS2 Standard.

The cabinet power supply shall provide LED indicators for the line frequency, 12 VDC, 12 VAC, and 24 VDC outputs.

The cabinet power supply shall provide (on the front panel) jack plugs for access to the +24 VDC for test purposes.

One Eagle Traffic CPS-105 cabinet power supply, or approved equal, shall be supplied with each cabinet assembly and shall be wired directly to the Power Bus Assembly via a 12-pin Molex Robotic type connector Model# 54332-1270 or an approved equal.

643.81 Video Detection. The Work shall consist of furnishing and installing a Currux Smart City vehicle detection system (henceforth referred to as 'sensor' in this section). There will be no approved equal. The system shall interface with the signal controller via SDLC. The contractor shall supply an interface panel compatible with a Nema TS2 Cabinet. The contractor shall also supply all additional cabling, mounting hardware, cabinet interfaces and any other component

required to provide a complete detection system described herein. The use a single 360 degree Axis model 4318-PLVE camera for coverage of the full intersection, a second 360 degree camera will be required as needed based upon manufacturers recommendation for optimal detection performance.

Each sensor shall be mounted on 120-inch candy cane mount or as recommended by the manufacturer. The sensor will be raised as high as practically possible. The risers shall be of the Pelco Galaxy type, with gusseted tube and the AG-3055 hinged clamp or approved equal. The use of u-bolts will not be permitted.

Each sensor shall be grounded, the ground for each sensor shall be minimum 12 AWG green wire and be bonded with the mast arm ground or as recommended by the manufacturer. Drilling and tapping, or the use of self-tapping screws into the mast-arm shall not be permitted.

Sensor cable shall be shielded Cat5e cable rated for outdoor use only, terminated with shielded connectors only, no non-shielded connectors will be used. At least 10 feet of extra sensor cable shall be coiled and neatly stored in the nearest pull box. Storing extra cable in the mast arm shall not be permitted.

Field wiring in the cabinet, sensor cable at each sensor shall be labeled as to what phases they serve per section 643.11 of this specification. All terminations in the cabinet shall conform to manufacturer recommendations and cables shall be secured neatly.

All detection equipment and sensors described herein shall be operational, powered and their operation demonstrated during the bench testing period described in section 643.042 of this Specification.

643.82 Advanced Detection.

643.83 Pedestrian Detection. Pedestrian push buttons shall be of the Accessible Pedestrian Signal (APS) type. The push button station (PBS) shall have push button confirmation, adjustable locator tone, a vibrating button during the "Walk" phase, the ability to play custom messages and shall automatically adjust sound to ambient noise levels. The PBS shall be a 2 Wire with black base and yellow front housing, countdown pedestrian sign (9x15, R10-3e) and saddle, an arrow indicating direction to and parallel with the crosswalk, braille street crossing on the faceplate and custom street crossing message as shown on the plans. PBS to be a Polara iNavigator iNS2. PBS will be interfaced through the SDLC bus utilizing an ICCU-S2 Shelf Mount Unit and iN2ICB. Any ancillary equipment, such as cabling and rack mounting hardware, shall be included and no separate payment for these items shall be made.

643.84 Detection Spares. As part of this project, the contractor shall supply one of each of the following per intersection as detection equipment spares; 1 – Axis – M4318-PLVE unit and any applicable mounting hardware, 1 – Currux G3L Processor, 1-AMG POE Unit, 1 - interface board for a NEMA TS2 Cabinet, 1 – APS PBS and 1 ICCU-S2.

643.90 Method of Measurement - Traffic signals, traffic signal modifications, interconnect wire, video detection system, traffic signal control system, and flashing beacons will each be measured for payment by the lump sum in place. Temporary traffic signals will be measured for payment by the lump sum, satisfactorily installed, operated, and removed.

Pedestal poles, strain poles, combination poles, and mast arm poles with mast arms will be measured by each unit.

643.91 Basis of Payment – Traffic signal modifications, traffic signals, interconnect wire and flashing beacons will be paid for at the Contract lump sum price, which payment will be full compensation for furnishing and installing all materials, both new and reused, including, but not limited to wood poles, span wire, tether wires, backplates, visors, guys, controllers, vehicular heads, pedestrian heads, flashing beacons, wiring, cable, pole risers, LED lamps, and all appurtenances and incidentals, including design of the Traffic Signal Structures, required for a complete functioning installation and for furnishing all tools and labor necessary for completing the installation. Conduits, junction boxes, and foundations will be paid for under Section 626.

Pedestal poles, combination poles and mast arm poles with mast arms will be paid for at the Contract unit price each which payment shall be full compensation for furnishing and installing all materials, tools and labor necessary to erect the poles.

Traffic signal control system will be paid for at the Contract lump sum price, which payment will be full compensation for furnishing and installing all materials, including, but not limited to local intersection traffic signal controller, controller cabinets, on-street master controller, supervisory PC software, and all appurtenances and incidentals required for a complete functioning installation.

Video Detection System will be paid for at the contract lump sum price, which payment will be full compensation for furnishing and installing all materials, including, but not limited to video processing unit, video cameras, other vehicle sensor devices, supervisory PC software, and all appurtenances and incidentals required for a complete functioning installation.

Payment will be made under:

	<u>Pay Item</u>	<u>Pay Unit</u>
643.80	TRAFFIC SIGNALS (AT ELM / UPPER FALLS / DIAMOND)	LS
643.80	TRAFFIC SIGNALS (AT ELM / LINCOLN)	LS
643.83	Video Detection System. 4 APPROACHES, COMPLETE ITEM	LS
643.91	MAST ARM POLE (ELM/UPPER FALLS/DIAMOND - 35' ARM)	EA
643.91	MAST ARM POLE (ELM/UPPER FALLS/DIAMOND - 25' ARM & 45' ARM)	EA
643.91	MAST ARM POLE (ELM/UPPER FALLS/DIAMOND - 45' ARM & 50' ARM)	EA
643.92	PEDESTAL POLE	EA

SPECIAL PROVISION
SECTION 652
MAINTENANCE OF TRAFFIC

Approaches. Approach signing shall include the following signs at a minimum. Field conditions may warrant the use of additional signs as determined by the Resident.

Road Work Next X* Miles
Road Work 500 Feet (Ahead)
End Road Work

Work Areas. At each work site, signs and channelizing devices shall be used as directed by the Resident.

Signs include:

Road Work xxxx¹.
One Lane Road Ahead
Flagger Sign

Other typical signs include:

Be Prepared to Stop
Low Shoulder
Bump
Pavement Ends

The above lists of Approach signs and Work Area signs are representative of the contract requirements. Other sign legends may be required.

Unless otherwise defined in Special Provision 105/107 or submitted and approved in the Traffic Control Plan, the following shall apply:

- The Contractor shall conduct their operations in such a manner that the roadway will not be restricted to one lane for more than 2,500 feet at each work area and no more than 4,000 feet for paving, milling, and crack seal/repair work areas.
- Where more than one work area restricts traffic to one lane operation, these work areas shall be separated by at least 1 mile of two-way operation.

Temporary Centerline A temporary centerline shall be placed each day on all new pavement to be used by traffic. The temporary centerline, when specified of reflectorized traffic paint, shall conform to the standard marking patterns used for permanent markings. Failure to apply a temporary centerline daily will result in a Traffic Control Violation and suspension of paving operations until temporary markers are applied to all previously placed pavement.

¹ "Road Work Ahead" to be used in short duration operations and "Road Work xx feet" to be used in stationary operations as directed by the Resident.

SPECIAL PROVISION
SECTION 812
SEWER MANHOLE

Description: This work shall consist of the installation and adjustment of manholes as indicated in the Bid Book, Plans, or as directed by the Resident / Utility Representative.

Sewer Manhole shall consist of removing an existing manhole and replacing with a new manhole in accordance with Section 604 - Manholes, Inlets, and Catch Basins.

Alter Sewer Manhole shall consist of supplying frame and cover in accordance with Special Provision 104 and the Standard Details and adjusting a manhole to the required final grade, including any lowering and any other adjustments that may be necessary prior to setting the final grade and in accordance with this Section and Section 604 - Manholes, Inlets, and Catch Basins.

Adjust Sewer Manhole to Grade shall consist of adjusting a manhole to the required final grade, including any lowering and any other adjustments that may be necessary prior to setting the final grade and in accordance with this Section and Section 604 - Manholes, Inlets, and Catch Basins.

Rebuild Sewer Manhole shall consist of rebuilding and adjusting a sewer manhole in accordance with this Section and Section 604 - Manholes, Inlets, and Catch Basins

<u>Pay Item</u>		<u>Pay Unit</u>
812.06	Sewer Manhole	Each
812.161	Alter Sewer Manhole	Each
812.162	Adjust Sewer Manhole to Grade	Each
812.164	Rebuild Sewer Manhole	Each

SPECIAL PROVISION
SECTION 823
GATE VALVE BOXES

Description This work shall consist of the adjustment or installation of gate valve boxes as indicated in the Bid Book, Plans, or as directed by the Resident.

Gate Valve Box, Adjust to Grade shall consist of adjusting a gate valve box to the required final grade, including any lowering and any other adjustments that may be necessary prior to setting the final grade.

Gate Valve Box, Install Only shall consist of removing an existing gate valve box, installing a replacement gate valve box, and adjusting the replacement gate valve box as specified above.

Materials The municipality or utility company owning or operating the existing water main system will provide all replacement gate valve boxes necessary for the Gate Valve Box, Install Only item. Any gate valve boxes damaged by improper construction methods or handling by the Contractor, as determined by the Department, shall be replaced at the Contractor's expense.

Method of Measurement Gate Valve Box, Adjust to Grade and Gate Valve Box, Install Only will be measured by the unit each, complete and in place.

Basis of Payment Payment for Gate Valve Box, Adjust to Grade shall be full compensation for all equipment, labor, and incidental materials necessary to adjust a gate valve box as specified above.

Payment for Gate Valve Box, Install Only shall be full compensation for all equipment, labor, and incidental materials necessary to replace and adjust a gate valve box as specified above.

<u>Pay Item</u>	<u>Pay Unit</u>
823.011 Gate Valve Box, Install Only	Each
823.332 Gate Valve Box, Adjust to Grade	Each

SPECIAL PROVISION
SECTION 841
(Bollard)

Description This work shall consist of furnishing and installing fixed steel tube bollards, reinforced concrete foundation, and associated hardware necessary to complete the work as detailed on the plans. All earthwork, excavation, concrete, compacted backfill shall be incidental to the bollard.

Materials

1. The main body of the product shall be constructed from ASTM A500 in accordance with Section 713.01 steel and be accompanied with steel mill certifications/test reports for the steel being used to ensure the durability and performance of the product. Secondary and non-ASTM steel may not be substituted.
2. The reinforced concrete base circular pier footing shall meet the general requirements of Section 502 – Structural Concrete, Class A and shall be reinforced with steel bars meeting the requirements of Section 503 – Reinforcing Steel, Plain Reinforcing Steel. The pier dimensions and reinforcing layout shall be as per the manufacturer's recommendations.

Construction Requirements

1. Steel Bollards shall be spaced and located as shown on the plans. Final locations shall be adjusted in the field.

Manufacturer Acceptable products and manufacturers include:

1. Traffic Guard Embedded RFP Series Bollard (Model: RFP4560R) as manufactured by Traffic Guard, LLC. www.trafficguard.net
2. MaxiForce Fixed Bollard (Model: MFRN-RS2-N5) as manufactured by Blue Ember Technologies, LLC. www.maxiforcebollards.com
3. Reliance Foundry Fixed Embedded Mount (Model: R-7902) as manufactured by Reliance Foundry Co. Ltd. www.reliance-foundry.com
4. Approved equal.

Finish

1. The bollard shall be primed with zinc rich coating system (primer) in accordance with Section 506.
2. The bollard shall have a Fusion Bonded Epoxy Coating finish (yellow, RAL1028) in accordance with Section 506.

Method of Measurement Bollards and all necessary incidentals to complete the work shall be paid for by each complete and accepted in place.

Basis of Payment The quantity of bollards will be paid for by the contract unit price for each

Biddeford
WIN 025653.00.00
US Route 1 (Elm Street)
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installation. Such payment will be full compensation for all labor, excavation, backfill, tools, associated hardware, and any other incidentals necessary to complete the work.

Payment will be made under:

Pay Item

Pay Unit

841.47

Steel Bollard

Each

SUPPLEMENTAL SPECIFICATIONS
(Corrections, Additions, & Revisions to Standard Specifications – March 2026)

Throughout the entire Document; Replace “AASHTO NTPEP” with “**AASHTO Product Evaluation and Audit Solutions**”

DIVISION 100

GENERAL CONDITIONS

- 100.1 In the first sentence, replace “2025” with “2026”
so that it says” **This 2026 edition...**”
- 101.2 Under the definition of Standard Specifications remove the phrase “Revision of 2020”.
- 104.5.4 In front of “Prompt Payment of Subcontractors” place the subsection number “**104.5.5**”.
- At the end of the paragraph starting with “**Payment Tracking Federal Projects**” add the sentence “ **Contractors and Subcontractors shall acknowledge Payments within 30 Days.**”

APPENDIX A TO DIVISION 100

- A-18 Starting on page A-18, Replace Section 1273 in the appendix with the current version dated June 25, 2026.

SECTION 201

STRUCTURAL EXCAVATION

- 201.24 Under ‘Pay Item’ add
- | | | |
|---------------|-----------------------|-------------|
| 201.24 | Removing Stump | Each |
|---------------|-----------------------|-------------|

SECTION 524

TEMPORARY STRUCTURAL SUPPORTS

- 524.06 Basis of Payment, in the item chart change the description of Item Number 524.301 from “Temporary Structural Support, Approaches” To “**Temporary Structural Support, _____**”

SECTION 639

ENGINEERING FACILITIES

- 639.01 Subsection 639.091 of the standard specification is deleted and replaced with the following:

“639.092 **Communication Services** The Contractor shall provide a secure, high-speed internet connection for the exclusive use of State personnel within the field office. The connection must remain active and functional for the entire duration of the project.

A. Performance Requirements:

- **Bandwidth:** The connection must deliver a minimum continuous download speed of **25 Mbps** and a minimum upload speed of **5 Mbps** per field office. For construction contracts over \$10 million, the minimum download speed shall scale to **50 Mbps**.
- **Latency:** The network latency must not exceed **80 milliseconds** round-trip to ensure stable connection to State VPN environments.
- **Data Allowance:** The service plan must include unlimited data, or a business-tier data allowance of no less than **200 GB per month per user**. Data throttling below the minimum required bandwidth speeds is prohibited.

B. Acceptable Technologies:

The Contractor may utilize any commercially available broadband technology that meets the performance requirements of Section A, including but not limited to:

- Cable or Fiber-optic broadband
- Fixed Wireless Access (FWA) or 4G LTE/5G Cellular Routers
- Low Earth Orbit (LEO) Satellite Systems (e.g., Starlink Business)

Traditional Geostationary (GEO) satellite internet systems (characterized by latencies exceeding 200 milliseconds) are explicitly prohibited unless a specific geographic exception is approved in writing by the Resident.

C. Hardware and Security:

- The Contractor shall supply a commercial-grade Wi-Fi router capable of supporting Wi-Fi 6 (802.11ax) standards.
- The field office network must be protected by a secure, unique WPA3 (or WPA2-Enterprise) password provided only to State personnel. A separate "guest" network must be configured if the Contractor's personnel share the physical connection.

The Contractor shall be responsible for the installation charges and all reinstallation charges following suspended periods. Monthly service and maintenance charges shall be billed by the Communication Service Provider (CSP) directly to the Contractor.

D. Waiver of Performance Requirements:

In locations where commercially available communication services are unable to meet one or more of the performance requirements specified in Section A, the Contractor may submit a written request to the Department for a waiver of the affected requirement(s). The request shall identify the requirement(s) that cannot be met, document the communication technologies reasonably available at the project location, and demonstrate that the proposed service represents the highest level of performance commercially available.

SECTION 643

TRAFFIC SIGNALS

643.19	Under 'Pay Item' replace		
643.83	Non-Invasive Detection – Stop Bar		Each
643.84	Non-Invasive Detection – Advance		Each
With the following:			
643.83	Video Detection System		Lump Sum
643.84	Interconnect Wire Between		Lump Sum

SECTION 652

MAINTENANCE OF TRAFFIC

- 652.2 Materials. Revise the second paragraph beginning with “ All signs shall be...” by adding the word “cones” to the second sentence so it reads in part
- “All barricades, **cones**, drums, and vertical panel markers shall be ...”
- 652.8.2 Revise the last paragraph beginning with “ There will be no payment...” by adding the following to the end:
- “There will be no payment for Maintenance of Traffic Control Devices during approved Contractor Requested Suspensions; The Contractor shall be responsible for maintaining all traffic control devices left in place during the suspension.”**

APPENDIX A TO DIVISION 100

SECTION 1 - BIDDING PROVISIONS

A. Federally Required Certifications By signing and delivering a Bid, the Bidder certifies as provided in all certifications set forth in this Appendix A - Federal Contract Provisions Supplement including:

- Certification Regarding No Kickbacks to Procure Contract as provided on this page 1 below.
- Certification Regarding Non-collusion as provided on page 1 below.
- Certification Regarding Non-segregated Facilities as provided by FHWA Form 1273, section III set forth on page 21 below.
- "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion" as provided by FHWA Form 1273, section XI set forth on page 32 below.
- "Certification Regarding Use of Contract Funds for Lobbying" as provided by FHWA Form 1273, section XII set forth on page 35 below.

Unless otherwise provided below, the term "Bidder", for the purposes of these certifications, includes the Bidder, its principals, and the person(s) signing the Bid. Upon execution of the Contract, the Bidder (then called the Contractor) will again make all the certifications indicated in this paragraph above.

CERTIFICATION REGARDING NO KICKBACKS TO PROCURE CONTRACT Except expressly stated by the Bidder on sheets submitted with the Bid (if any), the Bidder hereby certifies, to the best of its knowledge and belief, that it has not:

(A) employed or retained for a commission, percentage, brokerage, contingent fee, or other consideration, any firm or person (other than a bona fide employee working solely for me) to solicit or secure this contract;

(B) agreed, as an express or implied condition for obtaining this contract, to employ or retain the services of any firm or person in connection with carrying out the contract, or;

(C) paid, or agreed to pay, to any firm, organization, or person (other than a bona fide employee working solely for me) any fee, contribution, donation, or consideration of any kind for, or in connection with, procuring or carrying out the contract;

By signing and submitting a Bid, the Bidder acknowledges that this certification is to be furnished to the Maine Department of Transportation and the Federal Highway Administration, U.S. Department of Transportation in connection with this contract in anticipation of federal aid highway funds and is subject to applicable state and federal laws, both criminal and civil.

CERTIFICATION REGARDING NONCOLLUSION Under penalty of perjury as provided by federal law (28 U.S.C. §1746), the Bidder hereby certifies, to the best of its knowledge and belief, that:

the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with the Contract.

For a related provisions, see Section 102.7.2 (C) of the Standard Specifications - "Effects of Signing and Delivery of Bids" - "Certifications", Section 3 of this Appendix A entitled "Other Federal Requirements" including section XI - "Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion" and section XII. - "Certification Regarding Use of Contract Funds for Lobbying."

B. Bid Rigging Hotline To report bid rigging activities call: **1-800-424-9071**

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

SECTION 2 - FEDERAL EEO AND CIVIL RIGHTS REQUIREMENTS

Unless expressly otherwise provided in the Bid Documents, the provisions contained in this Section 2 of this "Federal Contract Provisions Supplement" are hereby incorporated into the Bid Documents and Contract.

A. Nondiscrimination & Civil Rights - Title VI The Contractor and its subcontractors shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the Department deems appropriate. The Contractor and subcontractors shall comply with Title VI of the Civil Rights Act of 1964, as amended, and with all State of Maine and other Federal Civil Rights laws.

For related provisions, see Subsection B - "Nondiscrimination and Affirmative Action - Executive Order 11246" of this Section 2 and Section 3 - Other Federal Requirements of this "Federal Contract Provisions Supplement" including section II - "Nondiscrimination" of the "Required Contract Provisions, Federal Aid Construction Contracts", FHWA-1273.

B. Nondiscrimination and Affirmative Action - Executive Order 11246 Pursuant to Executive Order 11246, which was issued by President Johnson in 1965 and amended in 1967 and 1978, this Contract provides as follows.

The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be

based upon its efforts to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

Ensure and maintain a working environment free of harassment, intimidations, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all forepersons, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its union have employment opportunities available, and to maintain a record of the organization's responses.

Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.

Provide immediate written notification to the Department's Civil Rights Office when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Design-Builder's efforts to meet its obligations.

Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under B above.

Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligation; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring,

assignment, layoff, termination, or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Forepersons, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractor's and Subcontractors with whom the Contractor does or anticipates doing business.

Direct its recruitment efforts, both orally and written to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above describing the openings, screenings, procedures, and test to be used in the selection process.

Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth, both on the site and in other areas of a Contractor's workforce.

Validate all tests and other selection requirements.

Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

Ensure that all facilities and company activities are non segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction Contractor's and suppliers, including circulation of solicitations to minority and female Contractor associations and other business associations.

Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

C. Goals for Employment of Women and Minorities Per Executive Order 11246, craft tradesperson goals are 6.9% women and .5% minorities employed. However, goals may be adjusted upward at the mutual agreement of the Contractor and the Department. Calculation of these percentages shall not include On-the-Job Training Program trainees, and shall not include clerical or field clerk position employees.

For a more complete presentation of requirements for such Goals, see the federally required document "Goals for Employment of Females and Minorities" set forth in the next 6 pages below.

Start of GOALS FOR EMPLOYMENT OF FEMALES AND MINORITIES
Federally Required Contract Document

§60-4.2 Solicitations

- (d) The following notice shall be included in, and shall be part of, all solicitations for offers and bids on all Federal and federally assisted construction contracts or subcontracts in excess of \$10,000 to be performed in geographical areas designated by the Director pursuant to §60-4.6 of this part (see 41 CFR 60-4.2(a)):

Notice of Requirement for Affirmative Action to Ensure Equal Opportunity (Executive Order 11246)

1. The Offeror's or bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

<u>Goals for female participation in each trade</u>	6.9%
---	------

Goals for minority participation for each trade

Maine

001 Bangor, ME	0.8%
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Non-SMSA Counties (Aroostook, Hancock, Penobscot, Piscataquis, Waldo, Washington)

002 Portland-Lewiston, ME

SMSA Counties: 4243 Lewiston-Auburn, ME (Androscoggin)	0.5%
---	------

6403 Portland, ME (Cumberland, Sagadahoc)	0.6%
--	------

Non-SMSA Counties: (Franklin, Kennebec, Knox, Lincoln, Oxford, Somerset, York)	0.5%
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These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non federally involved construction.

The contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be in violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor, estimated dollar amount of the subcontract; estimated started and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

4. As used in this Notice, and in the Contract resulting from this solicitation, the "covered area" is (insert description of the geographical areas where the contract is to be performed giving the state, county and city, if any).

STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS (EXECUTIVE ORDER 11246)

1. As used in these specifications:

- a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;
- b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
- c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department form 941;
- d. "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);

- (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of the North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
 3. If the contractor, is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors for Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
 4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7 a. through p. of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical areas where the work is being performed. Goals are published periodically in the Federal Register in notice form and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specific.
 5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant, thereto.
 6. In order for the non working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the

apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.

7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as expensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, when possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organization's responses.
 - c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment sources or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.
 - d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
 - e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources complied under 7b above.
 - f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific

review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment, efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing prior to the date for the acceptance of applications for apprenticeship or the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on site and in other areas of a Contractor's work force.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and company activities are non segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of

solicitation to minority and female contractor associations and other business associations.

- p. Conduct a review, at least annually, of all supervisor's adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7 a through p.). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7 a through p. of these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program and reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions take on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, specific minority group of women is underutilized.)
10. The Contractor shall not use the goals and timetables or affirmative action even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementation regulations by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the

requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.6.

14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g. mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and location at which the work was performed. Records be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

End of GOALS FOR EMPLOYMENT OF FEMALES AND MINORITIES
Federally Required Contract Document

D. Section '**D Disadvantaged Business Enterprise (DBE) Requirements**' is removed in its entirety. The DBE material is in:

Section 105.10 EQUAL OPPORTUNITY AND CIVIL RIGHTS.

SECTION 3 - OTHER FEDERAL REQUIREMENTS

Unless expressly otherwise provided in the Bid Documents, the provisions contained in this Section 3 of this "Federal Contract Provisions Supplement" are hereby incorporated into the Bid Documents and Contract.

A. Buy America

If the cost of products purchased for permanent use in this project which are manufactured of steel, iron or the application of any coating to products of these materials exceeds 0.1 percent of the contract amount, or \$2,500.00, whichever is greater, the products shall have been manufactured and the coating applied in the United States. The coating materials are not subject to this clause, only the application of the coating. In computing that amount, only the cost of the product and coating application cost will be included.

Ore, for the manufacture of steel or iron, may be from outside the United States; however, all other manufacturing processes of steel or iron must be in the United States to qualify as having been manufactured in the United States.

United States includes the 50 United States and any place subject to the jurisdiction thereof.

Products of steel include, but are not limited to, such products as structural steel, piles, guardrail, steel culverts, reinforcing steel, structural plate and steel supports for signs, luminaries and signals.

Products of iron include, but are not limited to, such products as cast iron grates.

Application of coatings include, but are not limited to, such applications as epoxy, galvanized and paint.

To assure compliance with this section, the Contractor shall submit a certification letter on its letterhead to the Department stating the following:

“This is to certify that products made of steel, iron or the application of any coating to products of these materials whose costs are in excess of \$2,500.00 or 0.1 percent of the original contract amount, whichever is greater, were manufactured and the coating, if one was required, was applied in the United States.”

B. Materials

a. Convict Produced Materials References: 23 U.S.C. 114(b)(2), 23 CFR 635.417

Applicability: FHWA's prohibition against the use of convict material only applies to Federal-aid highways. Materials produced after July 1, 1991, by convict labor may only be incorporated in a Federal-aid highway construction project if: 1) such materials have been produced by convicts who are on parole, supervised release, or probation from a prison; or 2) such material has been produced in a qualified prison facility, e.g., prison industry, with the amount produced during any 12-month period, for use in Federal-aid projects, not exceeding the amount produced, for such use, during the 12-month period ending July 1, 1987.

Materials obtained from prison facilities (e.g., prison industries) are subject to the same requirements for Federal-aid participation that are imposed upon materials acquired from other sources. Materials manufactured or produced by convict labor will be given no preferential treatment.

The preferred method of obtaining materials for a project is through normal contracting procedures which require the contractor to furnish all materials to be incorporated in the work. The contractor selects the source, public or private, from which the materials are to be obtained (23 CFR 635.407). Prison industries are prohibited from bidding on projects directly (23 CFR 635.112e), but may act as material supplier to construction contractors.

Prison materials may also be approved as State-furnished material. However, since public agencies may not bid in competition with private firms, direct acquisition of materials from a prison industry for use as State-furnished material is subject to a public interest finding with the Division Administrator's concurrence (23 CFR 635.407d). Selection of materials produced by convict labor as State-furnished materials for mandatory use should be cleared prior to the submittal of the Plans Specifications & Estimates (PS&E).

b. Patented/Proprietary Products References: 23 U.S.C. 112, 23 CFR 635.411

FHWA will not participate, directly or indirectly, in payment for any premium or royalty on any patented or proprietary material, specification, or process specifically set forth in the plans and specifications for a project, unless:

- the item is purchased or obtained through competitive bidding with equally suitable unpatented items,
- the STA certifies either that the proprietary or patented item is essential for synchronization with the existing highway facilities or that no equally suitable alternative exists, or
- the item is used for research or for a special type of construction on relatively short sections of road for experimental purposes. States should follow FHWA's procedures for "Construction Projects Incorporating Experimental Features" (expmmt.htm) for the submittal of work plans and evaluations.

The primary purpose of the policy is to have competition in selection of materials and allow for development of new materials and products. The policy further permits materials and products that are judged equal may be bid under generic specifications. If only patented or proprietary products are acceptable, they shall be bid as alternatives with all, or at least a reasonable number of, acceptable materials or products listed; and the Division Administrator may approve a single source if it can be found that its utilization is in the public interest.

Trade names are generally the key to identifying patented or proprietary materials. Trade name examples include 3M, Corten, etc. Generally, products identified by their brand or trade name are not to be specified without an "or equal" phrase, and, if trade names are used, all, or at least a reasonable number of acceptable "equal" materials or products should be listed. The licensing of several suppliers to produce a product does not change the fact that it is a single product and should not be specified to the exclusion of other equally suitable products.

c. State Preference References: 23 U.S.C. 112, 23 CFR 635.409

Materials produced within Maine shall not be favored to the exclusion of comparable materials produced outside of Maine. State preference clauses give particular advantage to the designated source and thus restrict competition. Therefore, State preference provisions shall not be used on any Federal-aid construction projects.

This policy also applies to State preference actions against materials of foreign origin, except as otherwise permitted by Federal law. Thus, States cannot give preference to in-State material sources over foreign material sources. Under the Buy America provisions, the States are permitted to expand the Buy America restrictions provided that the STA is legally authorized under State law to impose more stringent requirements.

d. State Owned/Furnished/Designated Materials References: 23 U.S.C. 112, 23 CFR 635.407

Current FHWA policy requires that the contractor must furnish all materials to be incorporated in the work, and the contractor shall be permitted to select the sources from which the materials are to be obtained. Exceptions to this requirement may be made when there is a definite finding, by MaineDOT and concurred in by Federal Highway Administration's (FHWA) Division Administrator, that it is in the public interest to require the contractor to use materials furnished by the MaineDOT or from sources designated by MaineDOT. The exception policy can best be understood by separating State-furnished materials into the categories of manufactured materials and local natural materials.

Manufactured Materials When the use of State-furnished manufactured materials is approved based on a public interest finding, such use must be made mandatory. The optional use of State-furnished manufactured materials is in violation of our policy prohibiting public agencies from competing with private firms. Manufactured materials to be furnished by MaineDOT must be acquired through competitive bidding, unless there is a public interest finding for another method, and concurred in by FHWA's Division Administrator.

Local Natural Materials When MaineDOT owns or controls a local natural materials source such as a borrow pit or a stockpile of salvaged pavement material, etc., the materials may be designated for either optional or mandatory use; however, mandatory use will require a public interest finding (PIF) and FHWA's Division Administrator's concurrence.

In order to permit prospective bidders to properly prepare their bids, the location, cost, and any conditions to be met for obtaining materials that are made available to the contractor shall be stated in the bidding documents.

Mandatory Disposal Sites Normally, the disposal site for surplus excavated materials is to be of the contractor's choosing; although, an optional site(s) may be shown in the contract provisions. A mandatory site shall be specified when there is a finding by MaineDOT, with the concurrence of the Division Administrator, that such placement is the most economical or that the environment would be substantially enhanced without excessive cost. Discussion of the mandatory use of a disposal site in the environmental document may serve as the basis for the public interest finding.

Summarizing FHWA policy for the mandatory use of borrow or disposal sites:

- mandatory use of either requires a public interest finding and FHWA's Division Administrator's concurrence,
- mandatory use of either may be based on environmental consideration where the environment will be substantially enhanced without excessive additional cost, and
- where the use is based on environmental considerations, the discussion in the environmental document may be used as the basis for the public interest finding.

Factors to justify a public interest finding should include such items as cost effectiveness, system integrity, and local shortages of material.

C. Standard FHWA Contract Provisions - FHWA 1273

Unless expressly otherwise provided in the Bid Documents, the following “Required Contract Provisions, Federal Aid Construction Contracts”, FHWA-1273, are hereby incorporated into the Bid Documents and Contract.

Cargo Preference Act : Contractor and Subcontractor Clauses. “Use of United States-flag vessels: The contractor agrees—“(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.”“(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, ‘on-board’ commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.”“(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.”(Reorganization Plans No. 21 of 1950 (64 Stat. 1273) and No. 7 of 1961 (75 Stat. 840) as amended by Pub. L. 91-469 (84 Stat. 1036) and Department of Commerce Organization Order 10-8 (38 FR 19707, July 23, 1973)) [42 FR 57126, Nov. 1, 1977]

The Cargo Preference Act requirements apply to materials or equipment that are acquired for a specific Federal-aid highway project. In general, the requirements are not applicable to goods or materials that come into inventories independent of an FHWA funded-contract. For example, the requirements would not apply to shipments of Portland cement, asphalt cement, or aggregates, as industry suppliers and contractors use these materials to replenish existing inventories. In general, most of the materials used for highway construction originate from existing inventories and are not acquired solely for a specific Federal-aid project. However, if materials or equipment are acquired solely for a Federal-aid project, then the Cargo Preference Act requirements apply.”

CONTRACT PROVISIONS FOR FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Davis-Bacon and Related Act Provisions
- IV. Contract Work Hours and Safety Standards Act Provisions
- V. Subletting or Assigning the Contract
- VI. Safety: Accident Prevention
- VII. False Statements Concerning Highway Projects
- VIII. Implementation of Clean Air Act and Federal Water Pollution Control Act
- IX. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
- X. Certification Regarding Use of Contract Funds for Lobbying
- XI. Use of United States-Flag Vessels

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only).

I. GENERAL

1. Historically, contracting agencies using Federal-aid highway funds were required to ensure Form FHWA-1273 was physically incorporated into all contracts and subcontracts. Effective June 10, 2026, this requirement was eliminated [91 FR 25492]. Future use of Form FHWA-1273 is now optional on the part of the contracting agency using Federal-aid highway funds. FHWA continues to make Form FHWA-1273 available as a convenience to contracting agencies. Contracting agencies must continue to ensure compliance with the provisions cited in Form FHWA-1273 in accordance with the provisions regardless of the use of Form FHWA-1273. Accordingly, the contracting agency retains the authority to determine whether the contractor must use Form FHWA-1273 to physically incorporate required contract provisions in each subcontract and in lower tier contracts. Where permitted by the contracting agency, the contractor may choose other ways to include required contract provisions in each subcontract, besides incorporating Form FHWA-1273. Contract provisions in Form FHWA-1273 are not required to be physically included in subcontracts for design services on Federal-aid design-build contracts, or in purchase orders, rental agreements and other agreements for supplies or services.

The applicable provisions of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor or design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents.

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's

immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

II. NONDISCRIMINATION

The contractor and all subcontractors must comply with the following policies: 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27, including any amendments thereto.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27, including any amendments thereto.

The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract.

1. Assurances Required:

a. The requirements of 49 CFR Part 26, including any amendments thereto, and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26, including any amendments thereto, in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E, including any amendments thereto, are incorporated by reference. 49 CFR Part 21.

III. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages (29 CFR 5.5)

a. *Wage rates and fringe benefits.* All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act ([29 CFR part 3](#))), the full amount of basic hourly wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. As provided in paragraphs (d) and (e) of 29 CFR 5.5, the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act ([40 U.S.C. 3141\(2\)\(B\)](#)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.e. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in

paragraph 4. of this section. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph 1.c. of this section) and the Davis-Bacon poster (WH-1321) must be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. *Frequently recurring classifications.* (1) In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in [29 CFR part 1](#), a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to paragraph 1.c. of this section, provided that:

- (i) The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;
- (ii) The classification is used in the area by the construction industry; and
- (iii) The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.

(2) The Administrator will establish wage rates for such classifications in accordance with paragraph 1.c.(1)(iii) of this section. Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

c. *Conformance.* (1) The contracting officer must require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract be classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate only when the following criteria have been met:

- (i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (ii) The classification is used in the area by the construction industry; and
- (iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.

(3) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the

classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken will be sent by the contracting officer by email to DBAconformance@dol.gov. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer will, by email to DBAconformance@dol.gov, refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(5) The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division under paragraphs 1.c.(3) and (4) of this section. The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 1.c.(3) or (4) of this section must be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

d. Fringe benefits not expressed as an hourly rate. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.

e. Unfunded plans. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the contractor, in accordance with the criteria set forth in § 5.28, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

f. Interest. In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.

2. Withholding (29 CFR 5.5)

a. Withholding requirements. The contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered

necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in this section for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in paragraph 3.d. of this section, the contracting agency may on its own initiative and after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

b. Priority to withheld funds. The Department has priority to funds withheld or to be withheld in accordance with paragraph 2.a. of this section or Section IV, paragraph 3.a., or both, over claims to those funds by:

- (1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (2) A contracting agency for its procurement costs;
- (3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (4) A contractor's assignee(s);
- (5) A contractor's successor(s); or
- (6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901](#)–3907.

3. Records and certified payrolls (29 CFR 5.5)

a. Basic record requirements (1) Length of record retention. All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.

(2) *Information required.* Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act); daily and weekly number

of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.

(3) *Additional records relating to fringe benefits.* Whenever the Secretary of Labor has found under paragraph 1.e. of this section that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act, the contractor must maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

(4) *Additional records relating to apprenticeship.* Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

b. *Certified payroll requirements* (1) *Frequency and method of submission.* The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to the contracting agency. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system.

(2) *Information required.* The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under paragraph 3.a.(2) of this section, except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (e.g., the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH-347 or in any other format desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division website at <https://www.dol.gov/sites/dolgov/files/WHD/legacy/files/wh347.pdf> or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the contracting agency.

(3) *Statement of Compliance.* Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:

(i) That the certified payroll for the payroll period contains the information required to be provided under paragraph 3.b. of this section, the appropriate information and basic records are being maintained under paragraph 3.a. of this section, and such information and records are correct and complete;

(ii) That each laborer or mechanic (including each helper and apprentice) working on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in [29 CFR part 3](#); and

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.

(4) *Use of Optional Form WH-347.* The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 will satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(3) of this section.

(5) *Signature.* The signature by the contractor, subcontractor, or the contractor's or subcontractor's agent must be an original handwritten signature or a legally valid electronic signature.

(6) *Falsification.* The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under [18 U.S.C. 1001](#) and [31 U.S.C. 3729](#).

(7) *Length of certified payroll retention.* The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

c. *Contracts, subcontracts, and related documents.* The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

d. *Required disclosures and access* (1) *Required record disclosures and access to workers.* The contractor or subcontractor must make the records required under paragraphs 3.a. through 3.c. of this section, and any other documents that the contracting agency, the State DOT, the FHWA, or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by § 5.1, available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.

(2) *Sanctions for non-compliance with records and worker access requirements.* If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to § 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under [29 CFR part 6](#) any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.

(3) *Required information disclosures.* Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address of each covered worker, and must provide them upon request to the contracting agency, the State DOT, the FHWA, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

4. Apprentices and equal employment opportunity (29 CFR 5.5)

a. *Apprentices (1) Rate of pay.* Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(2) *Fringe benefits.* Apprentices must be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits must be paid in accordance with that determination.

(3) *Apprenticeship ratio.* The allowable ratio of apprentices to journeyworkers on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to paragraph 4.a.(4) of this section. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph 4.a.(1) of this section, must be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(4) *Reciprocity of ratios and wage rates.* Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

b. *Equal employment opportunity.* The use of apprentices and journeyworkers under this part must be in conformity with [29 CFR part 30](#), including any amendments thereto.

c. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section III. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeyworkers shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

6. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs (1) through (11) of this section, along with the applicable wage determination(s) and such other clauses or contract modifications as the contracting agency may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate. 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the

contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

9. Disputes concerning labor standards. As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility. a. By entering into this contract, the contractor certifies that neither it nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

c. The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, [18 U.S.C. 1001](#).

11. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#); or

d. Informing any other person about their rights under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#).

IV. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the

Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchpersons and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1. of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages and interest from the date of the underpayment. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchpersons and guards, employed in violation of the clause set forth in paragraph 1. of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1. of this section.

* \$33 as of January 15, 2025 (See 90 FR 1859) as may be adjusted annually by the Department of Labor, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990.

3. Withholding for unpaid wages and liquidated damages

a. *Withholding process.* The FHWA or the contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in this section on this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with Section III paragraph 2.a. or paragraph 3.a. of this section, or both, over claims to those funds by:

(1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;

(2) A contracting agency for its procurement costs;

(3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;

(4) A contractor's assignee(s);

(5) A contractor's successor(s); or

(6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901–3907](#).

4. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs 1. through 5. of this section and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1. through 5. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.

5. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in this part;

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or this part;

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or this part; or

d. Informing any other person about their rights under CWHSSA or this part.

V. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of

the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" in paragraph 1. of this section refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph 1. of this section is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on longstanding interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however,

contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

VI. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the

character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

VIII. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.327.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.327.

IX. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the

eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>). 2 CFR 180.300, 180.320, and 180.325.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

* * * * *

3. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers to any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 1200.220.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered

transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

* * * * *

4. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

a. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(1) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(2) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(3) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

b. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

* * * * *

X. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

XI. USE OF UNITED STATES-FLAG VESSELS:

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the

extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS** (40 U.S.C. sections 14501(d) and 14701
and the Appalachian Regional Commission Code as
authorized under 40 U.S.C. section 14302)

This provision is applicable to all Federal-aid projects funded
under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor
undertaking to do work which is, or reasonably may be, done
as on-site work, shall give preference to qualified persons who
regularly reside in the labor area as designated by the DOL
wherein the contract work is situated, or the subregion, or the
Appalachian counties of the State wherein the contract work is
situated, except:

a. To the extent that qualified persons regularly residing in
the area are not available.

b. For the reasonable needs of the contractor to employ
supervisory or specially experienced personnel necessary to
assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to
present or former employees as the result of a lawful collective
bargaining contract, provided that the number of nonresident
persons employed under this subparagraph (1c) shall not
exceed 20 percent of the total number of employees employed
by the contractor on the contract work, except as provided in
subparagraph (4) below.

2. The contractor shall place a job order with the State
Employment Service indicating (a) the classifications of the
laborers, mechanics and other employees required to perform
the contract work, (b) the number of employees required in
each classification, (c) the date on which the participant
estimates such employees will be required, and (d) any other
pertinent information required by the State Employment
Service to complete the job order form. The job order may be
placed with the State Employment Service in writing or by
telephone. If during the course of the contract work, the
information submitted by the contractor in the original job order
is substantially modified, the participant shall promptly notify
the State Employment Service.

3. The contractor shall give full consideration to all qualified
job applicants referred to him by the State Employment
Service. The contractor is not required to grant employment to
any job applicants who, in his opinion, are not qualified to
perform the classification of work required.

4. If, within one week following the placing of a job order by
the contractor with the State Employment Service, the State
Employment Service is unable to refer any qualified job
applicants to the contractor, or less than the number
requested, the State Employment Service will forward a
certificate to the contractor indicating the unavailability of
applicants. Such certificate shall be made a part of the
contractor's permanent project records. Upon receipt of this
certificate, the contractor may employ persons who do not
normally reside in the labor area to fill positions covered by the
certificate, notwithstanding the provisions of subparagraph (1c)
above.

5. The provisions of 40 U.S.C. 14501 allow the contracting
agency to provide a contractual preference for the use of
mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1
through 4 of this Attachment A in every subcontract for work
which is, or reasonably may be, done as on-site work.

The United States Department of Transportation (USDOT)

Standard Title VI/Non-Discrimination Assurances

DOT Order No. 1050.2A

The **Maine Department of Transportation** (herein referred to as the "Recipient"), **HEREBY AGREES THAT**, as a condition to receiving any Federal financial assistance from the U.S. Department of Transportation (DOT), through **Federal Highway Administration** (herein referred to as "FHWA" is subject to and will comply with the following:

Statutory/Regulatory Authorities

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);
- 49 C.F.R. Part 21 (entitled *Non-discrimination In Federally-Assisted Programs Of The Department Of Transportation-Effectuation Of Title VI Of The Civil Rights Act Of 1964*);
- 28 C.F.R. section 50.3 (U.S. Department of Justice Guidelines for Enforcement of Title VI of the Civil Rights Act of 1964);

The preceding statutory and regulatory cites hereinafter are referred to as the "Acts" and "Regulations," respectively.

General Assurances

In accordance with the Acts, the Regulations, and other pertinent directives, circulars, policy, memoranda, and/or guidance, the Recipient hereby gives assurance that it will promptly take any measures necessary to ensure that:

"No person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity, for which the Recipient receives Federal financial assistance from DOT, including the FHWA.

The Civil Rights Restoration Act of 1987 clarified the original intent of Congress, with respect to Title VI and other Non-discrimination requirements (The Age Discrimination Act of 1975, and Section 504 of the Rehabilitation Act of 1973), by restoring the broad, institutional-wide scope and coverage of these non-discrimination statutes and requirements to include all programs and activities of the Recipient, so long as any portion of the program is Federally assisted.

Specific Assurances

More specifically, and without limiting the above general Assurance, the Recipient agrees with and gives the following Assurances with respect to its Federally assisted **FHWA Program**.

1. The Recipient agrees that each "activity," "facility," or "program," as defined in §§ 21.23(b) and 21.2(e) of 49 C.F.R. § 21 will be (with regard to an "activity") facilitated, or will be (with regard to a "facility") operated, or will be (with regard to a "program") conducted in compliance with all requirements imposed by, or pursuant to the Acts and the Regulations.
2. The Recipient will insert the following notification in all solicitations for bids, Requests For Proposals for work, or material subject to the Acts and the Regulations made in connection with all **FHWA Programs** and, in adapted form, in all proposals for negotiated agreements regardless of funding source:

*"The **Maine Department of Transportation**, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award."*

3. The Recipient will insert the clauses of Appendix A and E of this Assurance in every contract or agreement subject to the Acts and the Regulations.
4. The Recipient will insert the clauses of Appendix B of this Assurance, as a covenant running with the land, in any deed from the United States effecting or recording a transfer of real property, structures, use, or improvements thereon or interest therein to a Recipient.
5. That where the Recipient receives Federal financial assistance to construct a facility, or part of a facility, the Assurance will extend to the entire facility and facilities operated in connection therewith.
6. That where the Recipient receives Federal financial assistance in the form, or for the acquisition of real property or an interest in real property, the Assurance will extend to rights to space on, over, or under such property.
7. That the Recipient will include the clauses set forth in Appendix C and Appendix D of this Assurance, as a covenant running with the land, in any future deeds,

leases, licenses, permits, or similar instruments entered into by the Recipient with other parties:

- a. for the subsequent transfer of real property acquired or improved under the applicable activity, project, or program; and
 - b. for the construction or use of, or access to, space on, over, or under real property acquired or improved under the applicable activity, project, or program.
8. That this Assurance obligates the Recipient for the period during which Federal financial assistance is extended to the program, except where the Federal financial assistance is to provide, or is in the form of, personal property, or real property, or interest therein, or structures or improvements thereon, in which case the Assurance obligates the Recipient, or any transferee for the longer of the following periods:
 - A. the period during which the property is used for a purpose for which the Federal financial assistance is extended, or for another purpose involving the provision of similar services or benefits; or
 - b. the period during which the Recipient retains ownership or possession of the property.
9. The Recipient will provide for such methods of administration for the program as are found by the Secretary of Transportation or the official to whom he/she delegates specific authority to give reasonable guarantee that it, other recipients, sub-recipients, sub-grantees, contractors, subcontractors, consultants, transferees, successors in interest, and other participants of Federal financial assistance under such program will comply with all requirements imposed or pursuant to the Acts, the Regulations, and this Assurance.
10. The Recipient agrees that the United States has a right to seek judicial enforcement with regard to any matter arising under the Acts, the Regulations, and this Assurance.

By signing this ASSURANCE, **Maine Department of Transportation** also agrees to comply (and require any sub-recipients, sub-grantees, contractors, successors, transferees, and/or assignees to comply) with all applicable provisions governing the **FHWA's** access to records, accounts, documents, information, facilities, and staff. You also recognize that you must comply with any program or compliance reviews, and/or complaint investigations conducted by the **FHWA**. You must keep records, reports, and submit the material for review upon request to **FHWA** or its designee in a timely, complete, and accurate way. Additionally, you must comply with all other reporting, data collection, and evaluation requirements, as prescribed by law or detailed in program guidance.

Maine Department of Transportation gives this ASSURANCE in consideration of and for obtaining any Federal grants, loans, contracts, agreements, property, and/or discounts, or other Federal-aid and Federal financial assistance extended after the date hereof to the recipients by the U.S. Department of Transportation under the **FHWA Programs**. This ASSURANCE is binding on the State of Maine, other recipients, sub-recipients, sub-grantees, contractors, subcontractors and their subcontractors, transferees, successors in interest, and any other participants in the **FHWA Programs**. The person(s) signing below is authorized to sign this ASSURANCE on behalf of the Recipient.

Maine Department of Transportation
Dale F. Doughty, Commissioner
(Name of Recipient)

By: 
(Signature of Authorized Official)

Dated: 9-17-26

APPENDIX A

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, **Federal Aviation Administration (FHWA)**, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the **FHWA** to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the **FHWA** as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the **FHWA** may determine to be appropriate, including, but not limited to:

- a. withholding payments to the contractor under the contract until the contractor complies; and/or
 - b. cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the FHWA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

APPENDIX B

CLAUSES FOR DEEDS TRANSFERRING UNITED STATES PROPERTY

The following clauses will be included in deeds effecting or recording the transfer of real property, structures, or improvements thereon, or granting interest therein from the United States pursuant to the provisions of Assurance 4:

NOW, THEREFORE, the U.S. Department of Transportation as authorized by law and upon the condition that the **Maine Department of Transportation** will accept title to the lands and maintain the project constructed thereon in accordance with all requirements imposed by Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, part 21, Non-discrimination in Federally-assisted Programs of the Department of Transportation pertaining to and effectuating the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252; 42 U.S.C. § 2000d to 2000d-4), the Regulations for the Administration of **Federal Aviation Administration (FHWA) Program**, and the policies and procedures prescribed by the **FHWA** of the U.S. Department of Transportation in accordance and in compliance with all requirements imposed by Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Non-discrimination in Federally-assisted programs of the U.S Department of Transportation pertaining to and effectuating the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252; 42 U.S.C. § 2000d to 2000d-4), does hereby remise, release, quitclaim and convey unto the **Maine Department of Transportation** all the right, title and interest of the U.S. Department of Transportation in and to said lands described in Exhibit A attached hereto and made a part hereof.

(HABENDUM CLAUSE)

TO HAVE AND TO HOLD said lands and interests therein unto **Maine Department of Transportation** and its successors forever, subject, however, to the covenants, conditions, restrictions and reservations herein contained as follows, which will remain in effect for the period during which the real property or structures are used for a purpose for which Federal financial assistance is extended or for another purpose involving the provision of similar services or benefits and will be binding on the **Maine Department of Transportation**, its successors and assigns.

The **Maine Department of Transportation**, in consideration of the conveyance of said lands and interests in lands, does hereby covenant and agree as a covenant running with the land for itself, its successors and assigns, that (1) no person will on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination with regard to any facility located wholly or in part on, over, or under such lands hereby conveyed [,] [and]* (2) that the **Maine Department of Transportation** will use the lands and interests in lands and interests in lands so conveyed, in compliance with all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Non- discrimination in Federally-assisted programs of the U.S. Department of Transportation, Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations and Acts may be amended[, and (3) that in the event of breach of any of the above-mentioned non-discrimination conditions, the Department will have a right to enter or re-enter said lands and facilities on said land, and that above described land and facilities will thereon revert to and vest in and become the absolute property of the U.S. Department of Transportation

and its assigns as such interest existed prior to this instruction].*

(*Reverter clause and related language to be used only when it is determined that such a clause is necessary in order to make clear the purpose of Title VI.)

APPENDIX C

CLAUSES FOR TRANSFER OF REAL PROPERTY ACQUIRED OR IMPROVED UNDER THE ACTIVITY, FACILITY, OR PROGRAM

The following clauses will be included in deeds, licenses, leases, permits, or similar instruments entered into by the **Maine Department of Transportation** pursuant to the provisions of Assurance 7(a):

- A. The (grantee, lessee, permittee, etc. as appropriate) for himself/herself, his/her heirs, personal representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree [in the case of deeds and leases add "as a covenant running with the land"] that:
 - 1. In the event facilities are constructed, maintained, or otherwise operated on the property described in this (deed, license, lease, permit, etc.) for a purpose for which a U.S. Department of Transportation activity, facility, or program is extended or for another purpose involving the provision of similar services or benefits, the (grantee, licensee, lessee, permittee, etc.) will maintain and operate such facilities and services in compliance with all requirements imposed by the Acts and Regulations (as may be amended) such that no person on the grounds of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
- B. With respect to licenses, leases, permits, etc., in the event of breach of any of the above Non-discrimination covenants, **Maine Department of Transportation** will have the right to terminate the (lease, license, permit, etc.) and to enter, re-enter, and repossess said lands and facilities thereon, and hold the same as if the (lease, license, permit, etc.) had never been made or issued.*
- C. With respect to a deed, in the event of breach of any of the above Non-discrimination covenants, the **Maine Department of Transportation** will have the right to enter or re-enter the lands and facilities thereon, and the above described lands and facilities will there upon revert to and vest in and become the absolute property of the **Maine Department of Transportation** and its assigns.*

(*Reverter clause and related language to be used only when it is determined that such a clause is necessary to make clear the purpose of Title VI.)

APPENDIX D

CLAUSES FOR CONSTRUCTION/USE/ACCESS TO REAL PROPERTY ACQUIRED UNDER THE ACTIVITY, FACILITY OR PROGRAM

The following clauses will be included in deeds, licenses, permits, or similar instruments/agreements entered into by **Maine Department of Transportation** pursuant to the provisions of Assurance 7(b):

- A. The (grantee, licensee, permittee, etc., as appropriate) for himself/herself, his/her heirs, personal representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree (in the case of deeds and leases add, "as a covenant running with the land") that (1) no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities, (2) that in the construction of any improvements on, over, or under such land, and the furnishing of services thereon, no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination, (3) that the (grantee, licensee, lessee, permittee, etc.) will use the premises in compliance with all other requirements imposed by or pursuant to the Acts and Regulations, as amended, set forth in this Assurance.
- B. With respect to (licenses, leases, permits, etc.), in the event of breach of any of the above Non-discrimination covenants, **Maine Department of Transportation** will have the right to terminate the (license, permit, etc., as appropriate) and to enter or re-enter and repossess said land and the facilities thereon, and hold the same as if said (license, permit, etc., as appropriate) had never been made or issued.*
- C. With respect to deeds, in the event of breach of any of the above Non-discrimination covenants, **Maine Department of Transportation** will there upon revert to and vest in and become the absolute property of **Maine Department of Transportation** and its assigns.*

(*Reverter clause and related language to be used only when it is determined that such a clause is necessary to make clear the purpose of Title VI.)

APPENDIX E

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure

compliance with Title VI, you must take reasonable steps to
-ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at
74087 to 74100);

- Title IX of the Education Amendments of 1972, as amended, which prohibits you
from discriminating because of sex in education programs or activities (20 U.S.C.
1681 et seq).

**PHASE I AND PHASE II ENVIRONMENTAL ASSESSMENT
REPORT ON
ELM STREET ROADWAY RECONSTRUCTION
BIDDEFORD, MAINE
MAINEDOT WIN 25653.00**

by Haley & Aldrich, Inc.
Portland, Maine

for MaineDOT
Augusta, Maine

File No. 208555-006
September 2025

September 4, 2025
File No. 0208555-102

Maine Department of Transportation
16 State House Station
Augusta, Maine 04333-0016

Attention: Bradley Tirone, LG

Subject: Phase I and Phase II Environmental Assessment Report
Elm Street Roadway Reconstruction
MaineDOT WIN 25653.00
Biddeford, Maine

Ladies and Gentlemen:

This report presents the results of a Phase I and Phase II Environmental Assessment (EA) associated with the Maine Department of Transportation's (MaineDOT's) proposed Elm Street Roadway Reconstruction Project along U.S. Route 1 (Elm Street) in Biddeford, Maine. The project alignment extends along Elm Street from the intersection of Diamond Street and Upper Falls Road with Elm Street to the north, and the intersection of Center Street and Elm Street to the south of the alignment. This Phase I and Phase II EA was conducted to assess existing subsurface conditions related to the possible presence of oil and hazardous materials and identify potential environmental liabilities that may be encountered during construction activities associated with this roadway reconstruction project. This work has been completed in accordance with our proposal dated May 6, 2025 and your subsequent authorization.

Project Background

MaineDOT is undertaking the evaluation of environmental conditions for the proposed reconstruction of an approximately 0.3-mile section of Elm Street extending from the intersection of Diamond Street and Upper Falls Road to the north and the intersection with Center Street to the south (see Figure 1, Project Locus). A preliminary assessment identified areas of interest along the alignment associated with past/current usage and storage of petroleum products that warranted the completion of a Phase I and Phase II EA to further evaluate environmental conditions along the project alignment.

The scope of the Phase I assessment consisted of an environmental database review to identify listings of current and past adjacent facilities as they relate to the usage, storage, and release of hazardous substances and petroleum products included in State and Federal environmental databases. The Phase I assessment also included the completion of a reconnaissance along the project alignment to assess

current conditions associated with the use and storage of oil and hazardous materials and an evaluation of former uses and releases identified in the environmental database listings.

The scope of the Phase II assessment included a limited subsurface investigation program associated with suspect areas along the alignment based on the findings of the database review and environmental conditions observed during the alignment reconnaissance. The Phase II investigation included the completion of borings in identified locations for the collection and screening of soil samples. Analytical testing of select soil samples was conducted adjacent to areas identified in the Phase I evaluation to assess the extent and degree of environmental impacts to soil. The results of the field investigation and analytical testing were used to determine whether a Special Provision (SP) to the Technical Specifications would be needed to address potential environmental liabilities encountered during proposed alignment reconstruction activities.

Phase I Assessment

ENVIRONMENTAL DATABASE REVIEW

Haley & Aldrich, Inc. (Haley & Aldrich) used the electronic database service Environmental Data Resources, Inc. (EDR) to complete the environmental records review. The database search was used to identify properties that may be listed in state and federal agency records, in addition to other Maine Department of Environmental Protection (MEDEP) environmental databases. Haley & Aldrich also searched the Orphan Site List provided in the EDR report for sites adjacent to the project alignment. Orphan sites are those that, due to incorrect or incomplete addresses, could not be mapped. The environmental database EDR Summary Radius Map Report is included in Appendix A.

The Mapped Sites Summary section of the database report (pages 2 through 11) identifies the location of the various listings and the corresponding database for the identified site. The Executive Summary section of the database report lists the identified sites by database category, including the corresponding MEDEP Spill Reports, for listings associated with Leaking Aboveground Storage Tanks (ME LAST), Underground Storage Tanks (ME UST), Leaking Underground Storage Tank (ME LUST), and Historical Automotive (Hist Auto) Incident Reports. Locations of the key database listings are identified on the Detail Map included in Appendix A.

ALIGNMENT RECONNAISSANCE

A reconnaissance of the alignment was performed to assess areas within the vicinity of the proposed reconstruction area that were identified in the database report and additional areas that were observed during the walk-through that may warrant subsurface investigations. The reconnaissance was completed by Haley & Aldrich representatives on May 27, 2025. Areas along the alignment that were identified as suspect sites requiring additional investigations are shown on Figure 2 and included:

- A vacant parcel, located across the street of 52 Elm Street – approximately 60 feet east of Sta. 10+00; formerly a steam laundromat and gas station as identified on the Sanborn Map Report.

- Scrubadub Car Wash, located at 102 Elm Street and approximately 50 feet northwest of Sta. 14+00 to Sta. 15+00; formerly the site of an auto repair garage and gas station, identified on the Sanborn Map Report, ME LUST list, and EDR Hist Auto List.
- Domino's Pizza, located at 111 Elm Street – approximately 75 feet south of Sta. 18+00 to Sta. 19+00; formerly the site of an auto repair garage and gas station, identified on the Sanborn Map Report, ME LUST list, and EDR Hist Auto List.
- Wok N Roll – a private business, located at 131 Elm Street – approximately 50 feet southeast of Sta. 21+00 to Sta. 22+00; formerly the location of a gas station and Lumber Yard, as identified on the Sanborn Map Report.
- A vacant parcel located at 138 Elm Street – approximately 50 feet northwest of Sta. 21+00 to Sta. 22+00; formerly the Hamburger Stand, Inc., and an auto repair garage and gas station, identified on the Sanborn Map Report, ME UST list, and EDR Hist Auto list.
- Shell Gas Station located at 151 Elm Street – approximately 25 feet southeast of Sta. 22+00 to 23+00 and 40 feet north of Sta. 500+00 to Sta. 501+00; an existing gas station; formerly a gas station and auto repair garage, identified on the Sanborn Map Report, ME LUST list, and EDR Hist Auto list.
- Biddeford Food Pantry located at 162 Elm Street – approximately 40 feet northwest of Sta. 25+00 to Sta. 25+49; a private business; formerly a gas station, identified on the Sanborn Map Report and ME UST list.

Based on the existing conditions observed during the reconnaissance, it was determined by Haley & Aldrich that additional listings included in the database report had either been incorrectly located or did not represent a potential environmental liability. Therefore, boring locations were selected within the existing Route 1 right-of-way (ROW) adjacent to the seven areas identified above for additional subsurface investigations completed during the Phase II Investigation discussed in the following section of this report.

GEOLOGIC SETTING

According to Maine Geological Survey's Biddeford Quadrangle, Maine (2007),¹ surficial geologic units mapped within the project alignment area consist of the Pleistocene marine regressive sand deposits deposited during regressive phase of marine submergence. According to the Bedrock Geologic Map of Maine (MGS-1985),² bedrock beneath the alignment area is mapped as Silurian-Precambrian-age gneiss and granofels.

¹ https://digitalmaine.com/mgs_maps/2024/

² https://digitalmaine.com/mgs_maps/23/

Based on the Significant Sand and Gravel Aquifers Map for the Biddeford Quadrangle (MGS-Open-File No. 98-149 1998),³ the project alignment is located on an area with moderate to low or no potential to groundwater yield generally less than 10 gallons per minute.

Phase II Investigation

SUBSURFACE EXPLORATIONS

Haley & Aldrich conducted a Phase II investigation that included the completion of soil borings to assess subsurface conditions within the roadway and sidewalk ROW adjacent to the former gas stations, auto repair garages, and manufacturing facilities identified in the Phase I assessment to determine existing environmental conditions related to the use, storage, and release of primarily petroleum-related products. The Phase II investigations were performed on June 2, 2025. Drilling activities were completed during off hours (nighttime) to alleviate impacts to traffic flow and included lane closures and traffic control flaggers for safety precautions.

Boring GP-101 was completed adjacent to a former steam laundromat and gas station. Borings GP-102 and GP-103 were completed in areas adjacent to the location of an existing Domino's restaurant and former gas station. Borings GP-104 and GP-105 were completed adjacent to an existing restaurant and former gas station and lumber yard, boring GP-106 was completed adjacent to a former gas station, boring GP-107 was completed adjacent to the existing Shell gas station, and boring GP-108 was completed adjacent to the Biddeford Food Pantry and former gas station. The locations of the completed borings are shown on Figure 2. Boring locations were laid out in the field by Haley & Aldrich referencing the Phase I assessment and taking into consideration existing underground utilities.

The borings were drilled by Enviroserve of Auburn, Maine using a track-mounted Geoprobe drill rig. Test borings were drilled to depths ranging from 8.0 to 15.0 feet below ground surface (bgs). The soil samples were collected using an acetate liner and Geoprobe 5/8-inch ID drill rods. Collected soil was screened with a photoionization detector (PID) to assess the presence of volatile organic compounds (VOCs). Due to the lack of any observed soil staining, dye tests, which are used to evaluate the presence of fuel oil/diesel fuel, were not performed. Soil samples submitted for analytical testing were targeted and collected from depths with elevated PID readings. Soil descriptions and PID screening results are included in the Geoprobe Exploration Summary Table provided in Table 1.

SCOPE OF WORK DEVIATIONS

The borings located adjacent to the Scrubadub car wash were inaccessible at the time of drilling due to a high volume of utilities located in the ROW. The two proposed borings were not advanced; therefore, soil data was not obtained from this area.

³ https://digitalmaine.com/mgs_maps/1220/

ENCOUNTERED CONDITIONS

Fill material was encountered beneath the surficial grass or roadway pavement in the eight completed borings. The encountered fill material ranged from approximately 0.5 to 6.2 feet in thickness. It is likely that the fill material encountered in these borings is primarily backfill material associated with former roadway reconstruction activities. The encountered fill material typically consisted of medium-dense to loose SAND with occasional fine gravel, clay, and silt.

Glaciomarine deposits of undetermined thickness, typically consisting of a loose to medium-dense, poorly graded, fine to medium SAND, and soft to medium-stiff CLAY, were encountered beneath the penetrated fill material in the advanced borings.

Groundwater was observed in some of the borings at depths ranging from approximately 5.0 to 7.4 feet bgs .

FIELD SCREENING RESULTS

Environmental conditions encountered during the subsurface exploration program were assessed based on field observations and PID screening for VOCs. PID field screening was performed in accordance with established MEDEP protocols (SOP TS004-Compendium of Field Testing of Soil Samples for Gasoline and Fuel Oil).⁴ Based on the field screening results and observations, selected samples were submitted for laboratory analysis as summarized below.

Elevated PID readings were detected in the screened soil samples from five of the eight borings. In boring GP-102, a PID reading of approximately 65.1 parts per million (ppm) was detected in samples collected at depths ranging from 6.0 to 8.0 feet bgs. In borings GP-104 and GP-105, PID readings ranging from approximately 1.2 to 220 ppm were detected in samples collected at depths ranging from 6.0 to 7.5 feet. In borings GP-106 and GP-107, PID readings ranging from approximately 2.0 to 17 ppm were detected in samples collected at depths ranging from 6.0 to 7.5 feet. The approximate location of the completed borings are shown on Figure 2.

LABORATORY ANALYTICAL RESULTS

Based on detected elevated PID readings and confirmatory samples, five soil samples, GP-102 from a depth of 6.0 to 8.0 feet bgs, GP-104 from a depth of 7.0 to 7.5 feet bgs, GP-105 from a depth of 6.0 to 7.0 feet bgs, GP-106 from a depth of 6.0 to 7.0 feet bgs, and GP-107 from a depth of 6.5 to 7.5 feet bgs were submitted for chemical analysis for petroleum-related parameters, including extractable petroleum hydrocarbons (EPH), volatile petroleum hydrocarbons (VPH), VOCs by United States Environmental Protection (USEPA) Method 8260, and total lead. The selected samples were submitted to Pace Analytical of Westborough, Massachusetts for analysis. The analytical testing results are

⁴ [chrome-extension://efaidnbmnnnibpcaipcgjclefindmkai/https://www.maine.gov/dep/spills/petroleum/documents/sop/ts004.pdf](https://www.maine.gov/dep/spills/petroleum/documents/sop/ts004.pdf)

summarized in Table 2, along with the applicable MEDEP Remedial Action Guidelines (RAGs). The Laboratory Report is included in Appendix B. The results are as follows:

- GP-102-6-8 (Domino's Pizza) – EPH parameters C9-C18 aliphatics and VPH parameters C5-C8 aliphatics, C9-C10 aromatics, and C9-C12 aliphatics were detected at concentrations below compound-specific RAGs. VOCs and lead were not detected above the laboratory detection limit.
- GP-104-7-7.5 (Wok n Roll) – EPH parameters C11-C22 aromatics and C9-C18 aliphatics and VPH parameters C5-C8 aliphatics, C9-C10 aromatics, and C9-C12 aliphatics were detected at concentrations below compound-specific RAGs. VOCs were either not detected above the laboratory detection limit or were detected at concentrations below compound-specific RAGs. Lead was detected at a concentration of 8.21 milligrams per kilogram (mg/kg), significantly lower than the RAG criterion.
- GP-105-6-7 (Wok n Roll) – EPH parameters C9-C18 aliphatics and VPH parameters C5-C8 aliphatics, C9-C10 aromatics, and C9-C12 aliphatics were detected at concentrations below compound-specific RAGs. VOCs were either not detected above the laboratory detection limit or were detected at concentrations below compound-specific RAGs. Lead was detected at a concentration of 16.1 mg/kg, significantly lower than the RAG criterion.
- GP-106-6-7 (Vacant Business) – EPH parameters C9-C18 aliphatics and VPH parameters C9-C10 aromatics and C9-C12 aliphatics were detected at concentrations below compound-specific RAGs. VOCs were not detected above the laboratory detection limit. Lead was detected at a concentration of 10.3 mg/kg, significantly lower than the RAG criterion.
- GP-107-6.5-7.5 (Shell Gas Station) – EPH parameters and VPH parameters were not detected above the laboratory detection limit. VOCs analysis were either not detected above the laboratory detection limit or were detected at concentrations below compound-specific RAGs. Lead was detected at a concentration of 9.07 mg/kg, significantly below the RAG criterion.

Summary and Conclusions

Environmental conditions associated with properties adjacent to the project identified during the Phase I assessment were evaluated based on the completion of subsurface explorations performed along the project alignment. Soil samples screened with a PID detected elevated VOCs in five of the eight borings from depths ranging from approximately 6.0 to 8.0 feet bgs. Chemical testing results of these samples detected VPH, EPH, VOCs, and lead parameters at concentrations above the laboratory detection limit but significantly lower than the applicable "Construction Worker" RAGs.

Haley & Aldrich's Phase II assessment identified three areas within the boundary of the project alignment where contaminated subsurface material may impact the MaineDOT's plans of ROW improvements. There is the potential that subsurface conditions impacted by current and former uses of these areas may contain petroleum-impacted soils that were not detected during the investigations but may be encountered during future constructions activities.

The first area is adjacent to the Domino's Pizza restaurant located at 111 Elm Street on the southbound side of U.S. Route 1. Soil screened with a PID in one of the two borings advanced within this area detected elevated VOCs and strong hydrocarbon-like odors (GP-102). Analytical results from soil sample GP-102-6-8 did not detect elevated concentrations of VPH, EPH, VOCs, or lead parameters. The first area can be identified as the northbound side of Elm Street, approximately between Sta. 18+00 to Sta. 19+00.

The second area is adjacent to Wok n Roll Restaurant and a vacant parcel located at 131 and 138 Elm Street (northbound and southbound side of U.S. Route 1). Soil screened with a PID in the three borings within this area detected elevated VOCs and strong hydrocarbon-like odors (GP-104 through GP-106). Analytical results from soil samples GP-104-7-7.5, GP-105-6-7, and GP-106-6-7 did not detect elevated concentrations of VPH, EPH, VOCs, or lead parameters. The second area can be identified as both the northbound and southbound side of Elm Street, approximately between Sta. 21+00 to Sta. 22+00.

The third area is adjacent to the Shell gas station located at 151 Elm Street on the southeastern corner of the Elm Street and Main Street intersection. Soil screened with a PID in the boring within this area detected elevated VOCs and hydrocarbon-like odors (GP-107). Analytical results from the soil sample GP-107-6.5-7.5 did not detect elevated concentrations of VPH, EPH, VOCs, or lead parameters. The third area can be identified as the northbound side of Elm Street, approximately between Sta. 24+00 to Sta. 22+00.

Due to existing utilities, delineation was not achievable at all locations of interest; therefore, there is the potential of encountering potential residual contamination in existing utility trenches and/or other impacted areas within the project alignment that were not investigated as part of this assessment. If evidence of possible contamination is encountered during construction, the contractor should be required to notify MaineDOT to ensure worker health and safety related to the excavation/disposal/potential reuse of petroleum-impacted soils.

Haley & Aldrich recommends the MaineDOT Environmental Office draft a Special Provision addressing the results of this Phase II Environmental Assessment relative to the proposed work plan for the Elm Street Roadway Reconstruction Project (MaineDOT WIN 25653.00).

Closure

We appreciate the opportunity to provide environmental services for this project. Please do not hesitate to contact us if you have any questions or comments.

Sincerely yours,
HALEY & ALDRICH, INC.



Tyler Ramey
Project Geologist



David A. Dearden
Project Manager

Enclosures:

Table 1 – Summary of Geoprobe Explorations

Table 2 – Summary of Soil Analytical Results

Figure 1 – Project Locus

Figure 2 – Site and Exploration Plan

Appendix A – EDR Database Summary Report

Appendix B – Laboratory Report

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TABLES

TABLE 1

SUMMARY OF GEOPROBE EXPLORATIONS

ELM STREET ROADWAY RECONSTRUCTION PROJECT

MAINEDOT WIN 25653.00 - BIDDEFORD, MAINE

Geoprobe Number	Depth (feet)	Description
GP-101	0.0-1.0	Dark brown, moist, fine to coarse clayey SAND, little fine gravel, no odor
	1.0-2.0	Gray to white, dry, fine to coarse GRAVEL, trace clayey sand, well graded, no odor
	2.0-6.0	Brown, moist, fine to coarse sandy lean CLAY, slightly plastic, no odor
	6.0-8.0	Brown, wet, fine to coarse GRAVEL, well graded, no odor
	8.0-10.0	Brown, wet, fine to coarse clayey SAND, trace oxidation staining, no odor
	NOTE	No elevated PID readings were detected during soil sample screening operations. Bottom of exploration at 10.0 ft., no refusal
GP-102	0.0-0.6	Asphalt and trace gravel
	0.6-3.0	Brown, moist, fine to coarse sandy lean CLAY, trace fine gravel, no odor
	3.0-5.0	Brown, moist, fine to coarse clayey SAND, no odor
	5.0-6.0	Red brown, moist, fine to coarse silty SAND, trace fine gravel, no odor
	6.0-8.0	Olive gray, moist, fine to medium silty SAND, trace clay, slight hydrocarbon-like odor PID=65.1 ppm
		Bottom of exploration at 8.0 ft., due to refusal
GP-103	0.0-0.6	Asphalt and trace gravel
	0.6-3.0	Brown, moist, fine to coarse sandy lean CLAY, trace fine gravel, no odor
	3.0-5.0	Brown, moist, fine to coarse clayey SAND, no odor
	5.0-5.6	Red brown, moist, fine to coarse silty SAND, trace fine gravel, no odor
	5.6-7.4	Olive, moist, fine to coarse clayey SAND, trace fine gravel, no odor
	7.4-10.0	Gray, wet, fine to coarse clayey SAND, no odor
	NOTE	No elevated PID readings were detected during soil sample screening operations. Bottom of exploration at 10.0 ft., no refusal
GP-104	0.0-0.3	Asphalt
	0.3-4.0	Brown, moist, fine to coarse clayey SAND, trace fine gravel, no odor, PID=2.5 ppm
	4.0-5.0	No recovery
	5.0-6.5	Olive brown, wet, fine to coarse SAND, trace fine gravel, well graded, slight hydrocarbon-like odor, PID=4.0 ppm
	6.5-7.0	Olive brown, wet, lean CLAY, slightly plastic, hydrocarbon-like odor, PID=1.2 ppm
	7.0-7.5	Dark brown, wet, fine to medium sandy lean CLAY, slightly plastic, strong hydrocarbon-like odor, PID=78.9 ppm
	7.5-10.0	No recovery
	10.0-15.0	1 inch lense of black sandy lean CLAY. Gray, wet, fine to coarse clayey SAND, trace gravel, no odor Bottom of exploration at 15.0 ft., no refusal
GP-105	0.0-0.5	Concrete and asphalt
	0.5-1.0	White, dry, fine to coarse GRAVEL, poorly graded, no odor, appears to be crushed cobbles
	1.0-6.0	Brown, moist, fine to coarse sandy lean CLAY, slightly plastic, no odor
	6.0-7.0	Brown, wet, fine to coarse SAND, well graded, hydrocarbon-like odor, PID=220 ppm
	7.0-10.0	Gray, wet, fine to medium sandy lean CLAY, slightly plastic, no odor Bottom of exploration at 10.0 ft., no refusal
GP-106	0.0-0.3	Asphalt
	0.3-1.4	Brown, moist, fine to medium sandy lean CLAY, slightly plastic, no odor
	1.4-3.0	Tan, moist, fine to medium silty SAND, trace lean clay, no odor, PID=2.0 ppm
	3.0-5.0	No recovery
	5.0-6.0	Tan, moist, fine to medium silty SAND, slight hydrocarbon-like odor, PID=4.0 ppm
	6.0-7.0	Gray, wet, fine to medium SAND, trace silt, poorly graded, hydrocarbon-like odor, PID=17 ppm
	7.0-10.0	Gray, wet, lean CLAY, slightly plastic, very slight hydrocarbon-like odor, no odor at 10.0 feet Bottom of exploration at 10.0 ft., no refusal
GP-107	0.0-0.5	Asphalt
	0.5-3.0	Brown, moist, fine to coarse SAND, trace fine gravel, well graded, no odor, PID=0.5 ppm
	3.0-5.0	No recovery
	5.0-6.0	Brown, moist, fine to coarse clayey SAND, no odor
	6.0-6.5	Brown, wet, lean CLAY, slightly plastic, no odor
	6.5-7.5	Gray, wet, fine to coarse sandy CLAY, trace gravel, slightly plastic, slight hydrocarbon-like odor, PID=5.7ppm
	7.5-10.0	Gray, wet, lean CLAY, slightly plastic, no odor
		Bottom of exploration at 10.0 ft., no refusal

TABLE 1

SUMMARY OF GEOPROBE EXPLORATIONS

ELM STREET ROADWAY RECONSTRUCTION PROJECT

MAINEDOT WIN 25653.00 - BIDDEFORD, MAINE

Geoprobe Number	Depth (feet)	Description
GP-108	0.0-0.4	Asphalt
	0.4-2.0	Brown, moist, fine to coarse clayey SAND, trace gravel, no odor, 3 in, lense of clay from 0.9 to 1.1 feet
	2.0-5.6	Light brown, moist, fine to medium SAND, poorly graded, no odor, oxidation staining throughout
	5.6-6.4	Gray, moist, fine to medium silty SAND, no odor, black organic lense from 5.6 to 5.8 feet
	6.4-10.0	Gray, wet, stiff lean CLAY, slightly plastic, no odor
	NOTE	No elevated PID readings were detected during soil sample screening operations. Bottom of exploration at 10.0 ft., no refusal

Notes:

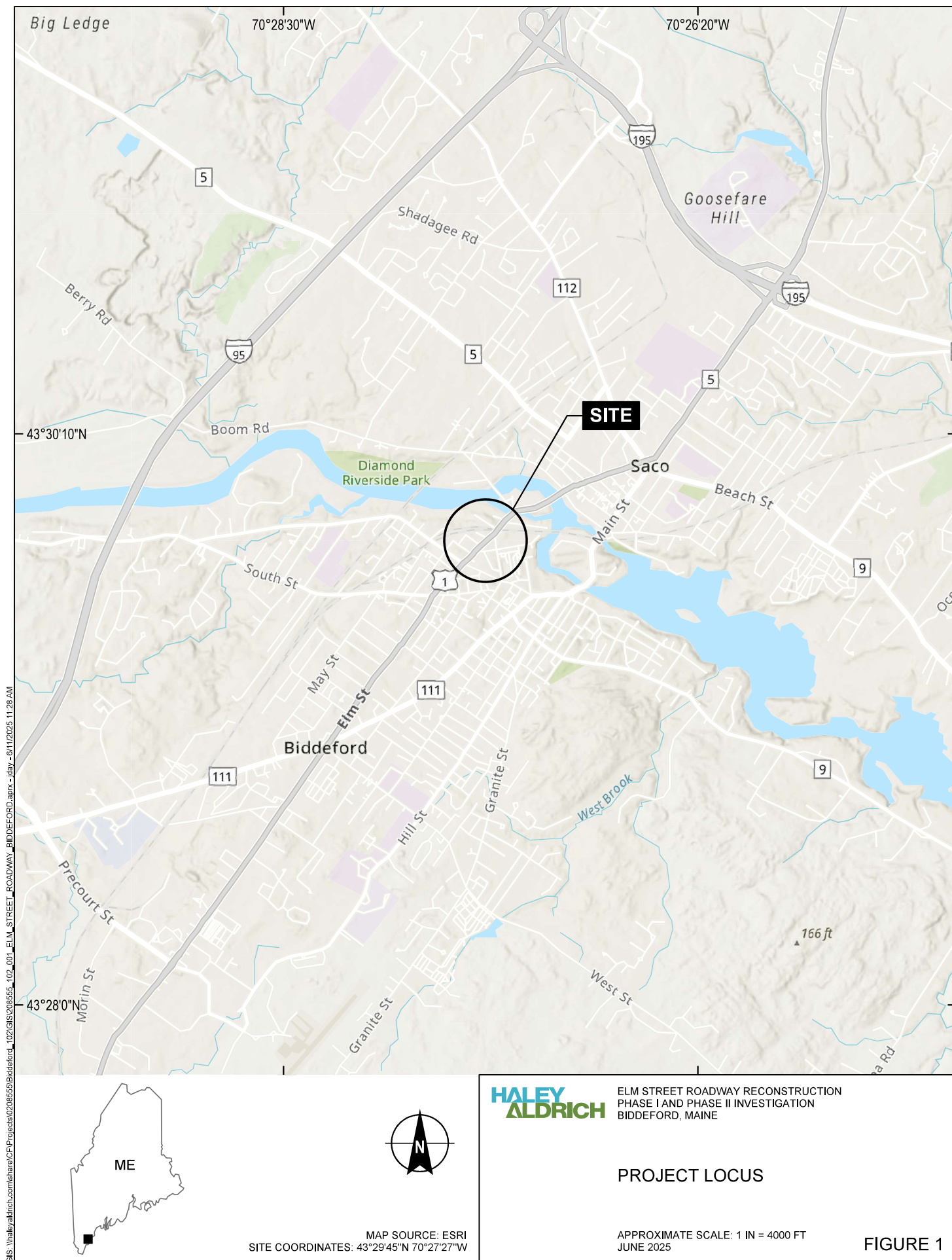
1. Geoprobe explorations were completed on November 11 through 13 and December 2 to 3, 2024 by Environmental Projects, Inc. of Auburn, Maine. All geoprobes were monitored by Haley & Aldrich personnel.
2. Soil samples were screened for VOCs with a RAE Systems MiniRAE 2000 Portable VOC Monitor.
3. Refer to Figures 2-5 for locations of the completed explorations.

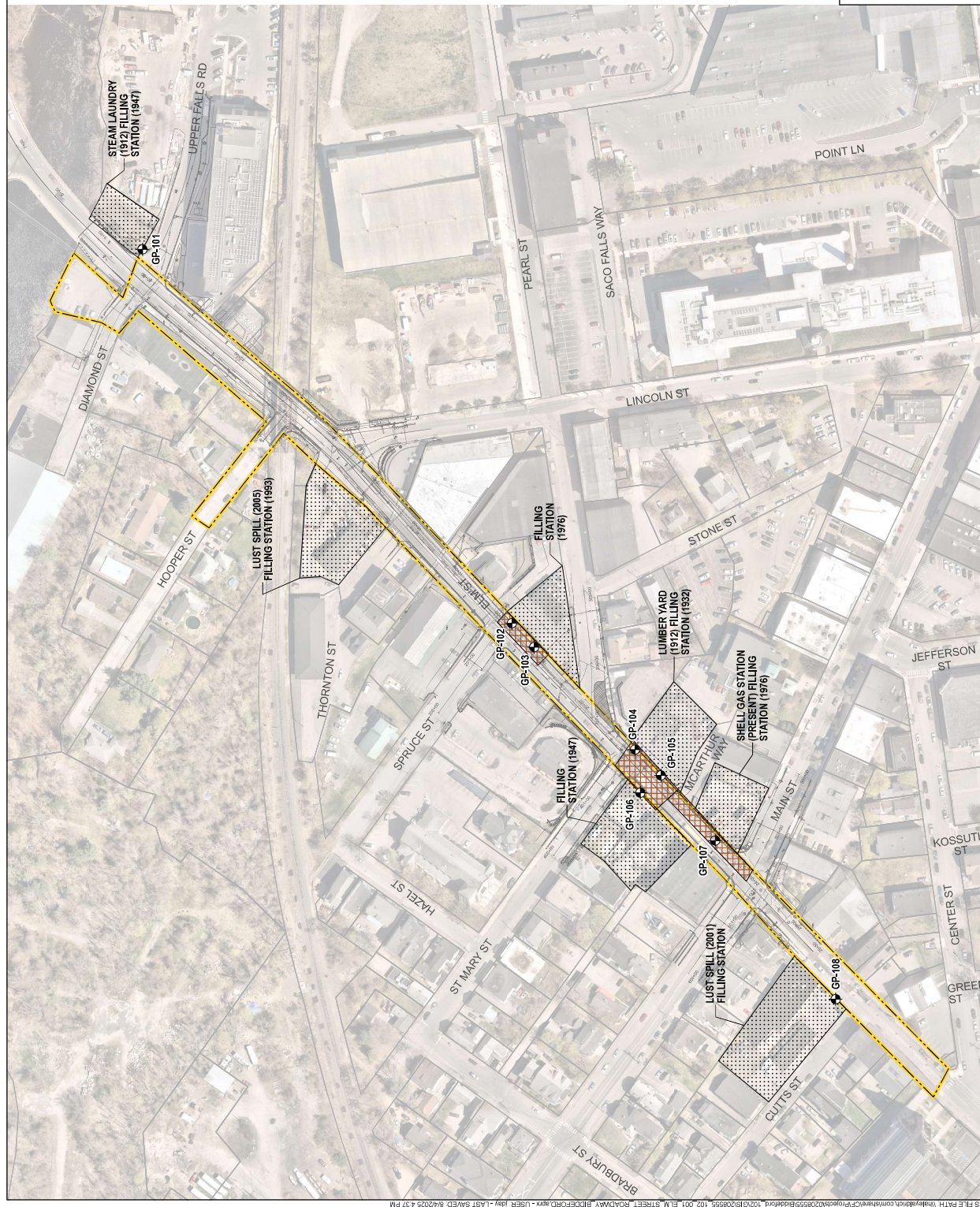
TABLE 2
SUMMARY OF ANALYTICAL RESULTS
 ELM STREET ROADWAY RECONSTRUCTION PROJECT
 MAINEDOT WIN 25653.00 - BIDDEFORD, MAINE

Location Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	Action Level	GP-102 GP-102-6-8 06/02/2025 L2534336-01 6 - 8 (ft)	GP-104 GP-104-7-7.5 06/02/2025 L2534336-02 7 - 7.5 (ft)	GP-105 GP-105-6-7 06/02/2025 L2534336-03 6 - 7 (ft)	GP-106 GP-106-6-7 06/02/2025 L2534336-04 6 - 7 (ft)	GP-107 GP-107-6.5-7.5 06/02/2025 L2534336-05 6.5 - 7.5 (ft)
	MEDEP RAGS Construction Worker					
Volatile Organic Compounds (mg/kg)						
1,2,4-Trimethylbenzene	220	ND (0.0025)	ND (0.18)	0.019	ND (0.0022)	ND (0.002)
1,3,5-Trimethylbenzene	180	ND (0.0025)	ND (0.18)	0.017	ND (0.0022)	ND (0.002)
2-Phenylbutane (sec-Butylbenzene)	34000	ND (0.0012)	0.13	0.0032	ND (0.0011)	0.0014
Acetone	100000	ND (0.031)	ND (0.9)	0.034	ND (0.027)	ND (0.024)
Benzene	240	ND (0.00062)	ND (0.045)	0.0010	ND (0.00055)	0.0038
Cymene (p-Isopropyltoluene)	--	ND (0.0012)	0.18	0.0032	ND (0.0011)	0.0012
Ethylbenzene	470	ND (0.0012)	ND (0.09)	0.004	ND (0.0011)	0.024
Isopropylbenzene (Cumene)	270	ND (0.0012)	ND (0.09)	0.0066	ND (0.0011)	0.0047
m,p-Xylenes	--	ND (0.0025)	ND (0.18)	0.0022	ND (0.0022)	0.011
Naphthalene	130	ND (0.0049)	ND (0.36)	0.0041	ND (0.0044)	0.0093
n-Butylbenzene	34000	ND (0.0012)	ND (0.09)	0.0028	ND (0.0011)	0.0010
n-Propylbenzene	260	ND (0.0012)	ND (0.09)	0.0068	ND (0.0011)	0.0083
Toluene	820	ND (0.0012)	ND (0.09)	ND (0.00097)	ND (0.0011)	0.0014
Xylene (Total)	260	ND (0.0012)	ND (0.09)	0.0022	ND (0.0011)	0.011
Extractable Petroleum Hydrocarbons (mg/kg)						
C11-C22 Aromatic Hydrocarbons, Adjusted	74000	ND (7.88)	9.58	ND (7.35)	ND (8.03)	ND (8)
C11-C22 Aromatic Hydrocarbons, Unadjusted	--	ND (7.88)	9.58	ND (7.35)	ND (8.03)	ND (8)
C9-C18 Aliphatic Hydrocarbons	4800	25.4	109	20.5	15.2	ND (8)
Volatile Petroleum Hydrocarbons (mg/kg)						
C5-C8 Aliphatic Hydrocarbons, Adjusted	430	10.2	110	99.6	ND (6.64)	ND (5.16)
C5-C8 Aliphatic Hydrocarbons, Unadjusted	--	10.2	110	99.7	ND (6.64)	ND (5.16)
C9-C10 Aromatic Hydrocarbons	2600	38.3	138	40.1	13.6	ND (5.16)
C9-C12 Aliphatic Hydrocarbons, Adjusted	2300	30.8	190	59.2	13.8	ND (5.16)
C9-C12 Aliphatic Hydrocarbons, Unadjusted	--	69.5	330	100	28.2	ND (5.16)
Inorganic Compounds (mg/kg)						
Lead	460	ND (9.46)	8.21	16.1	10.3	9.07
Other (%)						
Total Solids	--	81.3	90.7	86.8	79.4	82.5

TABLE 2	
SUMMARY OF ANALYTICAL RESULTS	
ELM STREET ROADWAY RECONSTRUCTION PROJECT	
MAINEDOT WIN 25653.00 - BIDDEFORD, MAINE	
Notes and Abbreviations:	
Detects are bolded .	
Non-detects are reported to the laboratory reporting limit (ND (RL)).	
mg/kg: milligram per kilogram	
--: No criteria available	
bgs: below ground surface	
ft.: feet	
ND: Not detected	
MEDEP: Maine Department of Environmental Protection	
RAGS: Remedial Action Guidelines for Contaminated Sites - November 15, 2023	

FIGURES



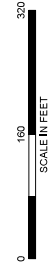


LEGEND

- BORING
- MAINE DEPARTMENT OF TRANSPORTATION BASE
- PROPERTIES OF POTENTIAL CONTAMINATION BASED ON HISTORICAL RESULTS
- AREA OF POTENTIAL SUBSURFACE CONTAMINATION BASED ON INVESTIGATION RESULTS
- PROJECT LIMITS
- PARCEL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: CUMBERLAND COUNTY
3. AERIAL IMAGERY SOURCE: NEARMAP APRIL 30 2025



HALEY ALDRICH
ELM STREET ROADWAY RECONSTRUCTION
PLM INVESTIGATION
BIDDEFORD, MAINE

SITE AND EXPLORATION PLAN

AUGUST 2025

FIGURE 2

APPENDIX A

EDR Database Summary Report

Biddeford

151 Elm Street
Biddeford, ME 04005

Inquiry Number: 07987081.2r
May 13, 2025

The EDR Radius Map™ Report with GeoCheck®



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with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

151 ELM STREET
BIDDEFORD, ME 04005

COORDINATES

Latitude (North): 43.4946660 - 43° 29' 40.79"
Longitude (West): 70.4588290 - 70° 27' 31.78"
Universal Transverse Mercator: Zone 19
UTM X (Meters): 382047.5
UTM Y (Meters): 4816567.0
Elevation: 85 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 19019661 BIDDEFORD, ME
Version Date: 2021

North Map: 19019663 OLD ORCHARD BEACH, ME
Version Date: 2021

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20180924
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
151 ELM STREET
BIDDEFORD, ME 04005

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	MELG UST I, LLC	151 ELM STREET/ 35 M	E MANIFEST		TP
A2	GREEN VALLEY 28052	151 ELM ST 35 MAIN S	UST FINDER		TP
A3	GERRY PROP. #28052	151 ELM ST.	ME RGA LUST		TP
A4	GETTY AUTO CENTER	151 ELM ST	EDR Hist Auto		TP
A5	UNKNOWN VEHICLE OWNE	151 ELM ST	ME LUST, ME SPILLS		TP
A6	GETTY (GREEN VALLEY	151 ELM ST & 35 MAIN	ME LUST		TP
A7	GREEN VALLEY 28052	151 ELM ST 35 MAIN S	ME UST		TP
B8	SBC BURIAL CORP.	5 THORNTON ST.	ME LUST	Lower	1 ft.
B9	MAINE ENERGY RECOVER	3 LINCOLN ST	ME UST	Lower	1 ft.
B10	FORMER MAIN ENERGY R	3 LINCOLN ST	NY MANIFEST	Lower	1 ft.
C11	FILL IT UP PLEASE	103 ELM ST - RT 1	ME LUST	Lower	1 ft.
C12	FILL IT UP PLEASE	103 ELM ST	UST FINDER	Lower	1 ft.
B13	SBC BURIAL CORP	5 THORTON ST	UST FINDER	Lower	1 ft.
C14	STANDARD AUTO SUPPLY	81 ELM ST	RCRA NonGen / NLR, FINDS	Lower	1 ft.
D15	MAINE TIRE & APPLIAN	124 ELM ST	ME UST	Lower	1 ft.
D16	HAROLDS SERVICE STAT	53 ELM ST	EDR Hist Auto	Lower	1 ft.
D17	CENTRAL MAINE POWER	132 ELM ST.	ME LUST	Lower	1 ft.
D18	FILL IT UP PLEASE	102 ELM ST - RT 1	ME LUST	Lower	1 ft.
C19	ADVANCE AUTO PARTS #	81 ELM ST	RCRA NonGen / NLR, ECHO, E MANIFEST, RI MANIFEST	Lower	1 ft.
C20	FILL IT UP PLEASE	103 ELM ST	ME UST	Lower	1 ft.
B21	FORMER MERC FACILITY	3 LINCOLN STREET	US BROWNFIELDS, FINDS	Lower	1 ft.
D22	HALEY'S TIRE MAINE	124 ELM ST. ROUTE 1	ME LUST	Lower	1 ft.
B23	VILLAGE MARKET	111 ELM STREET	ME LUST	Lower	1 ft.
B24	BIDDEFORD VILLAGE MA	111 ELM ST	ME UST	Lower	1 ft.
B25	BIDDEFORD VILLAGE MA	111 ELM ST	UST FINDER	Lower	1 ft.
B26	PELLETIER GERALD & S	111 ELM ST	EDR Hist Auto	Lower	1 ft.
B27	MAINE ENERGY RECOVER	3 LINCOLN ST	ME LAST, ME INST CONTROL, ME VCP, ME ALLSITES, ME...	Lower	1 ft.
B28	MAINE ENERGY RECOVER	3 LINCOLN STREET	ME AST, ICIS, FINDS, ECHO	Lower	1 ft.
B29	SBC BURIAL CORP	5 THORTON ST	ME UST	Lower	1 ft.
B30	DEVOE COLOR CENTER	129 ELM ST	ME UST	Lower	1 ft.
B31	BIDDEFORD VILLAGE MA	111 ELM STREET & PEA	ME LUST	Lower	1 ft.
D32	YUDYS WAREHOUSE	59 ELM ST	ME UST	Lower	1 ft.
C33	ADVANCE AUTO PARTS #	81 ELM STREET	ME ALLSITES	Lower	1 ft.
D34	SACO-LOWELL MILL	59 ELM STREET	US BROWNFIELDS	Lower	1 ft.
B35	MAINE ENERGY RECOVER	4 LINCOLN ST	ME UST	Lower	1 ft.
D36	FILL IT UP, PLEASE	102 ELM STREET	ME INST CONTROL, ME VCP, ME ALLSITES	Lower	1 ft.
D37	LABI INC	102 ELM ST	EDR Hist Auto	Lower	1 ft.
D38	SOULIERE & SONS	138 ELM ST	EDR Hist Auto	Lower	1 ft.
D39	QUINN'S BIKE & FITNE	138-140 ELM STREET	ME LUST	Lower	1 ft.

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151 ELM STREET
BIDDEFORD, ME 04005

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D40	QUINNS BIKE & FITNES	138 ELM ST	ME UST	Lower	1 ft.
C41	CARQUEST #1539	81 ELM STREET	RCRA NonGen / NLR	Lower	1 ft.
B42	MERC - FORMER YORK B	1 LINCOLN ST & ELM S	ME LUST	Lower	1 ft.
A43	BIDDEFORD GETTY PETR	158 ELM ST	EDR Hist Auto	Higher	1 ft.
E44	RENT A CENTER	160 ELM ST	UST FINDER	Higher	1 ft.
E45	RENT A CENTER	160 ELM ST	ME UST	Higher	1 ft.
F46	RIVER DAM MILLYARD W	24 PEARL & SMITH ST.	ME LUST, ME INST CONTROL, ME VCP, ME BROWNFIELDS,	Lower	1 ft.
F47	G W N CO		PFAS ECHO	Lower	1 ft.
E48	BOB'S AUTO SVCE. GAS	166 ELM ST., RT. 1	ME LUST	Higher	1 ft.
G49	CLIFFORD INSURANCE C	51 CENTER STREET	ME LUST	Higher	1 ft.
H50	ST JOSEPH CHURCH	GREEN & SOUTH STS	ME UST	Higher	1 ft.
E51	RENTAL UNIT	38 CENTER STREET	ME LAST	Higher	1 ft.
52	WAREHOUSE	7 PEARL ST	ME LAST	Lower	1 ft.
F53	RIVERDAM MILL	24 PEARL STREET	US BROWNFIELDS, FINDS	Lower	1 ft.
I54	SAINT MARYS PARISH	12 SAINT MARY ST	ME UST	Lower	1 ft.
F55	RIVERDAM MILL LOTS 9	26-28 PEARL STREET	ME VCP, ME BROWNFIELDS, ME ALLSITES	Lower	1 ft.
G56	TRYHAN APARTMENT PRO	2 KOSSUTH STREET	ME LAST	Higher	1 ft.
A57	MCARTHUR LIBRARY	270 MAIN ST	ME UST	Higher	1 ft.
F58	G W N CO	8 LINCOLN ST.	RCRA NonGen / NLR, FINDS, ECHO	Lower	1 ft.
I59	KIM EATON	9 ST MARYS ST	ME LAST	Lower	1 ft.
A60	EDWARD HIRST RESIDEN	275 MAIN STREET	ME LAST	Higher	1 ft.
G61	COMMUNITY PARTNERS H	1 GREEN STREET	ME LAST	Higher	1 ft.
G62	CLIFFORD, GREGORY F	49 & 59 CENTER STS	UST FINDER	Higher	1 ft.
A63	CABORETTE FERNAND A	MAIN & ELM STS	EDR Hist Auto	Higher	1 ft.
I64	HINKLEY MULTI UNIT R	15 SAINT MARYS STREE	ME LAST	Lower	1 ft.
F65	RIVERDAM MILL	24 PEARL ST	ME INST CONTROL, ME VCP, ME BROWNFIELDS, ME...	Lower	1 ft.
F66	BUGBY BROWN	22 PEARL STREET	ME LUST	Lower	1 ft.
J67	265 MAIN STREET	265 MAIN STREET	US BROWNFIELDS, FINDS	Higher	1 ft.
G68	UNSPECIFIED HOMEOWNE	7 GREEN STREET	ME LAST	Higher	1 ft.
K69	DEAN LESSARD	28-30 CUTTS ST	ME LAST	Lower	1 ft.
A70	SHELL GAS QUINN'S B	138-140 ELM ST ROUT	ME LUST	Lower	1 ft.
K71	APARTMENT BLDG AST L	14 BRADBURY ST	ME LAST	Lower	1 ft.
D72	DIAMOND LUMBER INC	DIAMOND ST	ME UST	Lower	5, 0.001,
F73	LINCOLN MILL	17 LINCOLN ST	ME LAST, ME VCP, ME BROWNFIELDS, ME ALLSITES, ME...	Lower	24, 0.005, ENE
F74	LINCOLN MILL	17 LINCOLN STREET	US BROWNFIELDS, ICIS, FINDS, ECHO	Lower	24, 0.005, ENE
D75	DOMINOS PIZZA	52 ELM STREET	ME LAST	Lower	37, 0.007, NE
H76	RORY HOLLAND	56 SOUTH & GREEN STS	ME LAST	Higher	50, 0.009, SSW
J77	NEW ENGLAND TEL CO C	10 JEFFERSON ST	RCRA NonGen / NLR	Higher	52, 0.010, SSE
J78	NEW ENGLAND TEL CO C	10 JEFFERSON ST	FINDS, ECHO, E MANIFEST	Higher	52, 0.010, SSE

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J79	BIDDEFORD CENTRAL OF	10 JEFFERSON ST	ME UST	Higher	52, 0.010, SSE
J80	VERIZON 733206 BIDDE	10 JEFFERSON ST	ME AST	Higher	52, 0.010, SSE
J81	BIDDEFORD SAVINGS BA	254 MAIN ST	ME UST, ME AST	Higher	55, 0.010, SE
H82	EATON APARTMENTS	61 SOUTH STREET	ME LAST	Higher	82, 0.016, SSW
H83	KIMBERLY EATON	61 SOUTH STREET	ME LAST	Higher	82, 0.016, SSW
J84	BIDDEFORD SAVINGS BA	253 MAIN ST	NY MANIFEST	Higher	86, 0.016, SE
L85	OUELLETTE RESIDENCE	37 STONE STREET	ME LAST	Lower	141, 0.027, ESE
M86	CRAIN, MERIDETH; RES	52 CUTTS STREET	ME LAST	Lower	144, 0.027, WNW
87	LE VOLTIGEUR SNOWSHO	207 ELM STREET	US BROWNFIELDS	Higher	146, 0.028, SW
M88	PRIMACK BUILDING	51 CUTTS STREET	ME LAST	Lower	147, 0.028, West
N89			ME LUST	Lower	178, 0.034, NE
N90	MAINE GLASS INC	48 ELM ST	ME UST	Lower	185, 0.035, NE
N91	MAINE GLASS INC	48 ELM ST	UST FINDER	Lower	185, 0.035, NE
O92	PRECISION SCREW MACH	GOOCH ST	RCRA-SQG, ME UST	Lower	205, 0.039, ENE
O93	PRECISION SCREW MACH	GOOCH ST	ME MANIFEST	Lower	205, 0.039, ENE
O94	20 & 30 GOOCH STREET	20 & 30 GOOCH STREET	US BROWNFIELDS	Lower	206, 0.039, ENE
N95	MULTI FAMILY RESIDEN	9 PINE STREET	ME LAST	Lower	225, 0.043, NE
P96	PICKEN RESIDENCE	33 GREEN STREET	ME LAST	Higher	253, 0.048, SSW
N97	ROGER'S GARAGE	ELM ST	ME LUST	Lower	269, 0.051, NE
N98	HOLLY'S SUPER GAS (F	38 ELM STREET	ME LAST, ME LUST	Lower	269, 0.051, NE
N99	ROGERS SERVIS CENTER	ELM ST (RT. 1)	ME LUST	Lower	269, 0.051, NE
L100	DIAMOND MATCH	MAIN STREET	US BROWNFIELDS	Lower	281, 0.053, ESE
L101	227 MAIN GROUP	227 MAIN STREET	ME LAST	Lower	297, 0.056, SE
N102	ROGER'S SERVICE CENT	38 ELM ST. (RT. 1)	ME LUST	Lower	298, 0.056, NE
Q103			ME LUST	Lower	301, 0.057, WNW
R104	UNITED CHURCH OF CHR	17 CRESCENT ST	ME UST	Higher	301, 0.057, South
N105	HOLLY'S (AKA ROGER'S	38 ELM ST./RT. 1	ME LUST	Lower	314, 0.059, NE
N106	ROGER'S SERVICE CENT	38 ELM ST., RT. 1	ME LUST	Lower	314, 0.059, NE
N107	FIVE GAS LLC	38 ELM ST	ME UST	Lower	314, 0.059, NE
N108	FIVE GAS LLC	38 ELM ST	UST FINDER	Lower	314, 0.059, NE
N109	ROGER'S SERVICE CENT	38 ELM STREET	ME LUST	Lower	314, 0.059, NE
N110	ROGERS SERVICE CENTE	38 ELM ST	EDR Hist Auto	Lower	314, 0.059, NE
L111	BETTER BAGELS / VENT	215 / 217 MAINE STRE	ME LAST	Lower	318, 0.060, SE
Q112	UNION OIL CO OF MAIN	372 MAIN ST	UST FINDER	Lower	322, 0.061, WNW
Q113	UNION OIL CO OF MAIN	372 MAIN ST	ME UST	Lower	322, 0.061, WNW
Q114	DR BIDDEFORD UNION B	372 MAIN STREET	ME AST, ME TIER 2	Lower	322, 0.061, WNW
Q115	UNION OIL CO	372 MAIN ST	ME LAST	Lower	322, 0.061, WNW
R116	WEILAND, KIM	13 CRESCENT STREET	ME LAST	Higher	332, 0.063, South
117	BEECH TREE ASSOCIATE	26 SOUTH ST	ME UST	Higher	371, 0.070, SSE

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118	EATON	35 STATE STREET	ME LAST	Higher	374, 0.071, West
P119	LEDGEWOOD APTS	9 GRAHAM ST	ME UST	Higher	379, 0.072, South
S120	COUNTING HOUSE	90 SACO FALLS WAY	ME BROWNFIELDS, ME ALLSITES	Lower	380, 0.072, ENE
T121	208 MAIN STREET	208 MAIN STREET	US BROWNFIELDS	Lower	396, 0.075, ESE
T122	FLEET BANK	208 MAIN ST	ME UST	Lower	396, 0.075, ESE
T123	FLEET BANK	208 MAIN ST	UST FINDER	Lower	396, 0.075, ESE
Q124	DON'S SHEET METAL SH	378 MAIN STREET	NY MANIFEST	Lower	397, 0.075, WNW
Q125	ABILITY EQUIPMENT SA	378 MAIN ST	ME LAST	Lower	397, 0.075, WNW
U126	SUPER SUB SHOP II	222 ELM ST	ME UST	Higher	430, 0.081, SW
U127	SEVIGNY RAOUL D JR	222 ELM ST	EDR Hist Auto	Higher	430, 0.081, SW
V128	MAURICE BEDARD	11 SMALLS COURT	ME LAST	Higher	433, 0.082, SSW
V129		17 WENTWORTH ST	ME LAST	Higher	443, 0.084, SSW
130	GIOVANNI RUSSO	42-44 IRVING STREET	ME LAST	Lower	459, 0.087, North
T131	ROTARY PARK	MAIN ST	ME UST	Lower	469, 0.089, ESE
T132	GILFORD RAILROAD	MAIN ST	ME UST	Lower	469, 0.089, ESE
T133	AUTO LEAK - RP UNKNO	205 MAIN ST	ME LUST, ME SPILLS	Lower	476, 0.090, ESE
W134	APARTMENT BUILDING	25 IRVING ST.	ME LAST	Lower	487, 0.092, North
135	DIAMOND MATCH	HORRIGAN COURT	ME VCP, ME BROWNFIELDS, ME ALLSITES	Lower	505, 0.096, NW
W136	HENRY ELLIE	14 IRVING ST	ME LAST	Lower	511, 0.097, North
Q137	WILLIAM LANGEVIN	386-388 MAIN ST	ME LAST	Lower	527, 0.100, WNW
X138	BIDDEFORD TIRE & AUT	15 ELM ST	ME UST	Lower	549, 0.104, NE
X139	BIDDEFORD TIRE COMPA	15 ELM STREET	ME LAST	Lower	549, 0.104, NE
Y140	GAMACHE ENTERPRISES	PEARL ST	ME UST	Lower	556, 0.105, ENE
T141	THACHER HOTEL	1 ADAMS ST	ME UST	Lower	556, 0.105, ESE
Y142	MAINE ENERGY RECOVER		PFAS ECHO	Lower	565, 0.107, ENE
Z143	KATE BUZZELL	395 MAIN STREET	ME LAST	Lower	567, 0.107, WNW
U144	HILL STREET APARTMEN	227 ELM STREET	ME LAST	Higher	581, 0.110, SW
145		1 SOUTH WATERBORO RO	ME SWF/LF	Higher	582, 0.110, SE
U146	PAULS GARAGE	234 ELM ST. (RT 1)	ME LUST	Higher	584, 0.111, SW
X147	DEERING LUMBER INC	14 ELM ST	ME UST	Lower	592, 0.112, NE
X148	BIDDEFORD LUMBER YAR	14 ELM ST - RT 1	ME LAST	Lower	592, 0.112, NE
X149	DEERING LUMBER INC	14 ELM ST	UST FINDER	Lower	592, 0.112, NE
X150	DEERING LUMBER INC	14 ELM ST	ME AST	Lower	592, 0.112, NE
AA151	APARTMENT BUILDING	54 ADAMS ST	ME LAST	Higher	602, 0.114, SSE
Z152	DALTON PROPERTY	399 MAIN STREET	ME LAST	Lower	608, 0.115, WNW
S153	COUNTING HOUSE	90 SACO FALLS WAY	US BROWNFIELDS	Lower	626, 0.119, East
AA154	MORENCY, RAYMOND	69 ADAMS ST	ME UST	Higher	654, 0.124, SSE
AB155	WESTPOINT STEVENS -	1-15 YORK STREET	US BROWNFIELDS	Lower	701, 0.133, ESE
AB156	WESTPOINT HOME INC	YORK ST	ME LAST, ME SPILLS, ME AIRS	Lower	701, 0.133, ESE

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AB157	WESTPOINT PEPPERELL,	1 YORK ST	RCRA-VSQQ, ME AST, PADS, ICIS, FINDS, ECHO, RI...	Lower	701, 0.133, ESE
AB158	WESTPOINT STEVENS	1-15 YORK STREET, 10	ME VCP, ME BROWNFIELDS, ME ALLSITES	Lower	701, 0.133, ESE
AB159	WESTPOINT STEVENS BI	ONE YORK ST	PA MANIFEST	Lower	706, 0.134, ESE
AC160	PAULS GARAGE	234 ELM ST	ME LUST	Higher	729, 0.138, SW
AC161	PAULS GARAGE	234 ELM ST	ME UST	Higher	729, 0.138, SW
AB162	WEST POINT PEPPERELL	2 YORK ST.	ME LUST	Lower	741, 0.140, ESE
AB163	WEST POINT PEPPERELL	2 YORK ST	ME UST	Lower	741, 0.140, ESE
AB164	WESTPOINT STEVENS -	12 YORK STREET	US BROWNFIELDS, FINDS	Lower	746, 0.141, ESE
X165	SOUTHERN MAINE HEALT	1 1 MEDICAL CENTER D	RCRA-LQG, ME AST, E MANIFEST, NJ MANIFEST	Lower	769, 0.146, NE
Z166	PROPERTY	409 MAIN STREET	ME LAST	Lower	778, 0.147, WNW
AB167	W. POINT PEPPERELL	170 MAIN STREET	ME DEL SHWS	Lower	784, 0.148, ESE
AA168			ME LUST	Higher	785, 0.149, SE
AB169	CENTRAL MAINE POWER	165 MAIN ST.	ME LAST, ME SPILLS	Lower	791, 0.150, ESE
170	BORQUE RESIDENCE	102 BRADBURY STREET	ME LAST	Higher	818, 0.155, SW
AD171	DUPUIS HARDWARE & LO	50 WASHINGTON STREET	RCRA NonGen / NLR	Higher	820, 0.155, SE
AD172	HOGLUND'S MEAT MARKE	50 WASHINGTON STREET	ME LAST, ME VCP, ME ALLSITES, ME SPILLS	Higher	820, 0.155, SE
AD173	DUPUIS HARDWARE	50 WASHINGTON ST	ME UST	Higher	820, 0.155, SE
174	RESIDENCE	43 WENTWORTH STREET	ME LAST	Higher	828, 0.157, SSW
AE175	LEOS ALIGNMENT CENTE	21 MARKET ST	UST FINDER	Lower	831, 0.157, North
AE176	LEOS ALIGNMENT CENTE	21 MARKET ST	ME UST	Lower	831, 0.157, North
AE177	LEOS ALIGNMENT	21 MARKET ST	ME LUST	Lower	831, 0.157, North
AB178	MAINE DISTRICT COURT	27 WASHINGTON ST	ME UST	Lower	835, 0.158, SE
AB179	WASHINGTON STREET PO	27 WASHINGTON STREET	US BROWNFIELDS	Lower	835, 0.158, SE
AB180	PEPPEREL TRUST CO	155 MAIN ST	ME UST	Lower	850, 0.161, ESE
AB181	PEPPERELL TRUST CO.	155 MAIN ST.	ME LUST	Lower	850, 0.161, ESE
AF182	APARTMENT BUILDING,	100 WASHINGTON STREE	ME LAST	Higher	854, 0.162, SSE
AD183	LUCIENNE NASON	57 JEFFERSON ST	ME LAST	Higher	878, 0.166, SE
AB184	148 MAIN ST FLOROS,	148 MAIN ST	ME UST	Lower	911, 0.173, ESE
AB185	PROPERTY	148 MAIN STREET	ME LUST	Lower	911, 0.173, ESE
AB186	SHERWIN WILLIAMS CO	143 MAIN ST	RCRA NonGen / NLR	Lower	929, 0.176, ESE
AG187	SACO RIVER ASSOCIATE	137 MAIN STREET	ME LAST	Lower	983, 0.186, ESE
AH188	FPL SITE	LACONIA AND YORK STR	ME VCP, ME BROWNFIELDS, ME ALLSITES	Lower	992, 0.188, ESE
AH189	ELEVATED PLATFORM	LACONIA & YORK STREE	ME VCP, ME ALLSITES	Lower	992, 0.188, ESE
AF190	BIDDEFORD POST OFFIC	ALFRED ST	ME UST	Higher	998, 0.189, SSE
AI191	MET BUILDING	250 ELM ST	ME LUST, ME UST	Higher	1004, 0.190, SW
AI192	LAUNDRY CENTER/BOOM'	250 ELAM STREET	ME SHWS, ME ALLSITES	Higher	1004, 0.190, SW
193	SACO ISLAND	SACO ISLAND	ME UST	Lower	1008, 0.191, East
AJ194	OLD TANNERY	32 MARKET STREET	ME INST CONTROL, ME VCP, ME BROWNFIELDS, ME...	Lower	1033, 0.196, North
AJ195	OLD TANNERY SACO	32 MARKET STREET	US BROWNFIELDS, FINDS	Lower	1033, 0.196, North

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AG196	COASTAL COMPUTERS	132 MAIN ST	ME LAST	Lower	1042, 0.197, ESE
AK197	JAMES ST PIPE YARD	JAMES ST	ME UST	Lower	1055, 0.200, WNW
AG198	MARBLE BLOCK	129 MAIN STREET	US BROWNFIELDS, FINDS	Lower	1060, 0.201, ESE
AG199	MARBLE BLOCK	129 MAIN STREET	ME INST CONTROL, ME VCP, ME BROWNFIELDS, ME...	Lower	1060, 0.201, ESE
AK200	WOOD, STEVEN D	18 WESTERN AVE	ME UST	Lower	1064, 0.202, WNW
AL201	VEILLEUX CITGO (PAUL	80 ALFRED ST (RT. 11	ME LUST	Higher	1093, 0.207, SSE
AL202	PAUL'S VARIETY	80 ALFRED ST. (RT. 9	ME LUST	Higher	1093, 0.207, SSE
AM203	YORK COUNTY DISTRIBU	45 WESTERN AVE	UST FINDER	Higher	1094, 0.207, West
AM204	YORK COUNTY DISTRIBU	45 WESTERN AVE	ME UST	Higher	1094, 0.207, West
205	ROBERT TROENCHER	38 WESTERN AVE.	ME LAST	Higher	1095, 0.207, West
AM206	APARTMENT BUILDING	49-51 WESTERN ST	ME LAST	Higher	1111, 0.210, West
AG207	EASTLAND CONSTRUCTIO	124 MAIN STREET	ME LAST	Lower	1111, 0.210, ESE
AG208	WESTPOINT STEVENS MI		PFAS ECHO	Lower	1118, 0.212, SE
AL209	SAPERIO OIL	100 ALFRED STREET	ME INST CONTROL, ME VCP, ME ALLSITES, ME SPILLS	Higher	1124, 0.213, SSE
AN210	BOB & MIKES EXXON	4 ELM ST & GREEN ST	ME LUST	Lower	1146, 0.217, NE
AN211	EXXON STATION	ELM STREET	ME LUST	Lower	1146, 0.217, NE
AG212	RIVERWALK PARCEL	LACONIA ST	US BROWNFIELDS, FINDS	Lower	1150, 0.218, ESE
AL213	MAINE DRY CLEANERS	99 ALFRED ROAD	ME DRYCLEANERS	Higher	1151, 0.218, SSE
AL214	MAINE CLEANERS & COI	99 ALFRED ST.	ME VCP, ME ALLSITES	Higher	1151, 0.218, SSE
AL215	VEILLEUX OIL BULK PL		ME LUST	Higher	1157, 0.219, SSE
AL216	VEILLEUX OIL / GAS S	80 ALFRED ST.	ME LUST	Higher	1159, 0.220, SSE
AL217	SRA VARIETY D/B/A PA	80 ALFRED ST	ME UST	Higher	1159, 0.220, SSE
AL218	PAUL S VARIETY	80 ALFRED STREET	RCRA NonGen / NLR, E MANIFEST	Higher	1159, 0.220, SSE
AL219	SRA VARIETY D/B/A PA	80 ALFRED ST	UST FINDER	Higher	1159, 0.220, SSE
AI220	JACOBSON, PAYSON B	268 ELM ST	ME UST	Higher	1161, 0.220, SW
AN221	BOBS AUTO SVC	2 LINCOLN ST	ME UST	Lower	1165, 0.221, NE
AN222	BOB'S AUTO SERVICE	2 LINCOLN STREET	E MANIFEST	Lower	1165, 0.221, NE
AN223	BOB'S EXXON	4 ELM ST., RT. 1	ME LUST	Lower	1188, 0.225, NE
AO224	CRISTO'S REST. 7-EL	66 ALFRED & JEFFERSO	ME LUST	Higher	1190, 0.225, SE
AO225	7 ELEVEN 32540	66 ALFRED ST	UST FINDER	Higher	1195, 0.226, SE
AO226	7 ELEVEN 32540	66 ALFRED ST	ME UST	Higher	1195, 0.226, SE
AO227	CHRISTY'S #315	66 ALFRED STREET	ME LUST, ME INST CONTROL, ME VCP, ME ALLSITES	Higher	1195, 0.226, SE
AO228	CRISTY'S STORE #315	UNKNOWN	RCRA-VSQG, ICIS, US AIRS, E MANIFEST	Higher	1195, 0.226, SE
AO229	MAHONEY BUILDING	64 ALFRED ST	ME UST	Higher	1199, 0.227, SE
AP230			ME LUST	Lower	1200, 0.227, NW
AQ231	BIDDEFORD PUBLIC WOR	152 ALFRED ST	UST FINDER	Higher	1203, 0.228, South
AQ232	BIDDEFORD PUBLIC WOR	152 ALFRED ST	ME UST	Higher	1203, 0.228, South
AN233	CATARACT PROJECT-SPR	75 WATER STREET	ME LUST	Lower	1213, 0.230, NE
AO234	52 ALFRED STREET, LL	52 ALFRED ST.	ME LAST	Lower	1226, 0.232, SE

MAPPED SITES SUMMARY

Target Property Address:
151 ELM STREET
BIDDEFORD, ME 04005

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
235	TRULL NURSING HOME I	15 MAY ST	ME UST	Higher	1227, 0.232, WSW
AN236	US DOJ?DEA CLET	73 WATER ST	E MANIFEST	Lower	1230, 0.233, ENE
AR237	CULLITY REALITY CO I	38 ALFRED ST	ME UST	Lower	1245, 0.236, SE
AS238	FW MORSE & CO	44 LINCOLN ST	ME UST	Lower	1249, 0.237, NE
AN239	ALFREDA ROWLAND	21 LINCOLN ST	ME LAST	Lower	1250, 0.237, NE
AT240	APARTMENTS	125 LINCOLN ST	ME LAST	Lower	1252, 0.237, NNE
241	CLANCY RESIDENCE	15 HILL STREET	ME LAST	Lower	1253, 0.237, North
242	NIKE SHOE FACTORY	SACO ISLAND	ME LUST	Lower	1259, 0.238, East
AR243	UNKNOWN	20 ALFRED ST.	ME LAST	Lower	1263, 0.239, ESE
AR244	EASTLAND	16 ALFRED ST	ME UST	Lower	1267, 0.240, ESE
AS245			ME LUST	Lower	1267, 0.240, NE
AS246	SACO MANUFACTURING A	39 LINCOLN STREET	E MANIFEST	Lower	1271, 0.241, NE
AS247	SACO MFG & WOODWORKI	39 LINCOLN ST	ME UST	Lower	1271, 0.241, NE
AR248	ST. ANDRE'S CHURCH &	73 & 75 BACON STREET	US BROWNFIELDS	Lower	1272, 0.241, SE
AR249	BIDDEFORD POLICE DEP	39 ALFRED ST	UST FINDER	Lower	1286, 0.244, SE
AR250	BIDDEFORD POLICE DEP	39 ALFRED ST	ME UST	Lower	1286, 0.244, SE
AT251	JARRY, DONALD & RICH	119 LINCOLN ST	ME UST	Lower	1297, 0.246, NNE
252	WESTPOINT STEVENS -	100 MAIN STREET	US BROWNFIELDS, FINDS	Lower	1299, 0.246, ESE
253	UNIT 91	MAIN STREET, SACO IS	ME VCP, ME ALLSITES	Lower	1300, 0.246, East
AP254	FORMER BIDDEFORD BOX	432-442 MAIN STREET	US BROWNFIELDS, FINDS	Lower	1302, 0.247, WNW
AU255	SACO RIVER-MER9-0905	SACO RIVER-MER9-0905	ME PFAS	Lower	1303, 0.247, NW
AU256	SACO RIVER		PFAS WQP	Lower	1303, 0.247, NW
AU257	SACO RIVER-FW08ME019	SACO RIVER-FW08ME019	ME PFAS	Lower	1303, 0.247, NW
AN258	JOHNSTON RESIDENCE	17 ELM ST & STORER S	ME LAST	Lower	1368, 0.259, NE
259	ROGER POIRIER	15 WEST MYRTLE ST	ME LAST	Higher	1372, 0.260, SSW
260	APARTMENTS	81 LINCOLN ST	ME LAST, ME SPILLS	Lower	1391, 0.263, NNE
AT261	BRUCE WAKEFIELD (RES	15 HARRISON AVENUE	ME LAST	Lower	1420, 0.269, NNE
262	HENDERSON (RES)	67 WENTWORTH STREET	ME LAST	Higher	1443, 0.273, SSW
AR263	CNR ENTERPRISES	20 FOSS ST.	ME LAST	Lower	1453, 0.275, SE
AV264	SKIPPERS RESTAURANT	27 ELM	ME LAST	Lower	1482, 0.281, NE
AW265	SACO ISLAND RAILROAD	ROUTE 1	ME LAST, ME VCP, ME ALLSITES	Lower	1487, 0.282, East
266	SACO ISLAND WEST	SACO ISLAND	ME VCP, ME ALLSITES	Lower	1487, 0.282, East
267	LEE'S FORMAL WEAR	78 GRAHAM STREET	ME SHWS, ME INST CONTROL, ME ALLSITES	Higher	1523, 0.288, SSW
AX268	MAILMAN, WAYNE	72 - 74 FOSS ST	ME LAST	Higher	1538, 0.291, SSE
AX269	BOUCHER, DANIEL	69 FOSS ST.	ME LAST	Higher	1555, 0.295, SE
AX270		75 FOSS ST.	ME LAST	Higher	1566, 0.297, SSE
AY271	SULLIVAN, RICHARD	25 POOL ST.	ME LAST, ME SPILLS	Higher	1572, 0.298, SE
AY272	AL CHAREST	17 KING ST	ME LAST	Higher	1575, 0.298, SE
273	LORD PEPPERELL APART	25 WATER STREET	ME VCP, ME ALLSITES	Lower	1582, 0.300, ENE

MAPPED SITES SUMMARY

Target Property Address:
151 ELM STREET
BIDDEFORD, ME 04005

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
AZ274	WHITE STAR LAUNDRY I	38 PROSPECT STREET	ME SHWS, ME LUST, ME LAST, ME ALLSITES, ME SPILLS,...	Higher	1597, 0.302, South
275	DICK HALL RESIDENCE	276 LINCOLN ST	ME LAST	Higher	1601, 0.303, NNW
276	BIDDEFORD BOX CO	432 & 442 MAIN STREE	ME BROWNFIELDS, ME ALLSITES	Lower	1607, 0.304, NW
BA277	BROWN RESIDENCE	102 FOSS ST	ME LAST	Higher	1609, 0.305, SSE
AZ278	BONNIE HARMON	15 PORTER ST.	ME LAST	Higher	1613, 0.305, South
AV279	SACO SUNOCO 1	28 ELM ST., RT. 1	ME LUST	Lower	1618, 0.306, NE
AV280	XTRAMART - SACO	28 ELM ST	ME LUST, ME LAST, ME TIER 2	Lower	1618, 0.306, NE
BB281	SCOTT PERRY	36 EMERY ST	ME LAST	Lower	1620, 0.307, ESE
282	MICHELLE WORTH	124 PLEASANT ST	ME LAST	Lower	1666, 0.316, NE
AW283	BUILDING 108	14 GOOCH STREET (SAC	ME INST CONTROL, ME VCP, ME ALLSITES	Lower	1680, 0.318, East
BA284	ABBAS ABBAS	68-70 BIRCH STREET	ME LAST	Higher	1692, 0.320, SSE
AW285		110 MAIN ST SUITE 13	ME SWF/LF	Lower	1723, 0.326, East
AW286	CUTTS ISLAND GROUP (	110 MAIN ST SUITE 15	ME LUST	Lower	1723, 0.326, East
BC287	NKL TANNING CO.	72 MAIN ST. & SACO R	ME SHWS, ME LUST, ME ALLSITES, ME SPILLS	Lower	1728, 0.327, East
AY288	CONNOLLY	33 POOL STREET	ME LAST	Higher	1732, 0.328, SE
BD289	PRIVATE RESIDENCE	149 PLEASANT STREET	ME LAST	Lower	1732, 0.328, NE
290	BROOKFIELD RENEWABLE	119 MAIN STREET	ME LAST, ME SPILLS, ME NPDES	Lower	1735, 0.329, East
291	CUMBERLAND FARMS GUL	31 ELM STREET	ME LUST	Lower	1737, 0.329, NE
BD292	LISA OULLETTE	22 SPRING STREET	ME LAST	Lower	1773, 0.336, NE
BD293	ROBERT SCARPELLI	171 PLEASANT ST	ME LAST	Lower	1782, 0.338, NE
BE294	STAN FORTUNA	27 STORER STREET	ME LAST	Lower	1818, 0.344, ENE
BE295	LINDA CLARK	23 STORER ST	ME LUST	Lower	1847, 0.350, ENE
BB296	RAYETT APTS	32 HILL ST	ME LAST	Lower	1847, 0.350, ESE
BF297	BSG PROPERTIES	172-182 MAIN STREET	ME LAST	Lower	1887, 0.357, ENE
298	GEORGE REGGEP	56 MAPLE ST	ME LAST	Higher	1887, 0.357, North
299	DOUG DARBY	57 PROSPECT ST	ME LAST	Higher	1893, 0.359, South
BG300		78 BIRCH STREET	ME LAST	Higher	1914, 0.363, SSE
BG301			ME LUST	Higher	1918, 0.363, SSE
BH302	AHMAD ALIJABBARI	43 PLEASANT ST	ME LAST	Lower	1937, 0.367, ENE
BC303			ME LUST	Lower	1940, 0.367, East
BC304	NIKE FACTORY	SACO ISLAND	ME LUST	Lower	1940, 0.367, East
BF305	MAINE DRY CLEANERS (	15 PEPPERELL SQUARE	ME SHWS, ME VCP, ME ALLSITES, ME DRYCLEANERS	Lower	1946, 0.369, ENE
BF306	17 PEPPERELL SQUARE	17 PEPPERELL SQUARE	ME INST CONTROL, ME VCP, ME ALLSITES	Lower	1949, 0.369, ENE
BI307	BRIAN THIDODEAU	83 HILL ST.	ME LAST	Higher	1971, 0.373, SE
BJ308	NORTH DAM MILL	2 MAIN STREET	ME INST CONTROL, ME VCP, ME BROWNFIELDS, ME...	Lower	1980, 0.375, ESE
BJ309	NORTH DAM MILL	2 MAIN STREET	RCRA-VSQG, ME UST, US BROWNFIELDS, ICIS, US AIRS,...	Lower	1980, 0.375, ESE
BJ310	WESTPOINT STEVENS BO	2 MAIN STREET	ME BROWNFIELDS, ME ALLSITES	Lower	1980, 0.375, ESE
BJ311	WESTPOINT STEVENS MI	2 MAIN STREET	US BROWNFIELDS, ICIS, FINDS	Lower	1980, 0.375, ESE
BF312			ME LUST	Lower	1984, 0.376, ENE

MAPPED SITES SUMMARY

Target Property Address:
151 ELM STREET
BIDDEFORD, ME 04005

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
BK313	GAGNE PROPERTY	18 WATER STREET	US BROWNFIELDS, FINDS	Lower	2012, 0.381, ESE
BE314	SACO FIRE STA.	THORNTON AVE.	ME LUST	Lower	2022, 0.383, ENE
BL315	KEVIN WHITTEN	103 HILL STREET	ME LAST	Higher	2029, 0.384, SSE
BM316	N K L TANNING INC	72 MAIN ST	SEMS-ARCHIVE, RCRA NonGen / NLR, NY MANIFEST	Lower	2036, 0.386, East
BM317	NKL TANNING CO WAREH	72 MAIN STREET (FACT	ME SHWS, ME ALLSITES	Lower	2036, 0.386, East
BL318	EMERY SCHOOL	116 HILL STREET	US BROWNFIELDS, FINDS	Higher	2042, 0.387, SSE
BL319	EMERY SCHOOL	116 HILL STREET	ME INST CONTROL, ME VCP, ME BROWNFIELDS, ME...	Higher	2042, 0.387, SSE
BM320	HOLLIS CAR CARE	34 MAIN ST., ROUTE 3	ME LAST	Lower	2067, 0.391, East
BK321	GAGNE BROTHERS BULK	1 WATER STREET	ME SHWS, ME BROWNFIELDS, ME ALLSITES	Lower	2070, 0.392, ESE
BI322	MARK ALIANO	53 POOL ST	ME LAST	Higher	2076, 0.393, SE
BN323	CLOSET	61 BACON STREET	ME LAST, ME SPILLS	Lower	2083, 0.395, SE
BH324	KEN BOLSTRIDGE APART	41 THORNTON AVE.	ME LAST	Lower	2089, 0.396, ENE
BN325	APARTMENT BUILDING	57 BACON & PIERSON L	ME LUST	Higher	2098, 0.397, SE
BO326	SACO MOBIL	SCAMMON & RT. 1	ME LUST	Lower	2098, 0.397, ENE
BJ327	WHITES WHARF SITE	WATER STREET	EDR MGP	Lower	2130, 0.403, ESE
BH328	CANDI DENT	28 THORNTON AVE	ME LAST	Lower	2137, 0.405, ENE
329	LORRAINE RUEL	21-23 LAMBERT ST	ME LAST	Higher	2149, 0.407, SSW
330	KIMBERLY EATON	20 CHAPEL ST	ME LAST	Higher	2161, 0.409, SE
331	MARC BOUCHER PROPERT	104 SUMMER STREET	ME LAST	Higher	2163, 0.410, SSE
BI332	RENTAL PROPERTY	32 MIDDLE STREET	ME LAST	Higher	2166, 0.410, SE
333	UNITED STATES POSTAL	225 MAIN ST	ME LAST	Lower	2168, 0.411, ENE
BH334	NOTRE DAME CONVENT	27 THORNTON AVE	ME LUST	Lower	2173, 0.412, ENE
335	BIDDEFORD REGIONAL V	MAPLEWOOD AVENUE	ME LUST	Lower	2178, 0.412, WNW
BO336	GAS STATION	73 ELM, RT. 1	ME LUST	Lower	2182, 0.413, ENE
BO337	MIDAS MUFFLER	73 ELM STREET	ME LAST, ME LUST	Lower	2182, 0.413, ENE
338	LEMIRE RESIDENCE	14 LESSARD ST.	ME LAST	Higher	2220, 0.420, SW
BN339	BIDDEFORD HOUSING AU	39 SULLIVAN STREET	ME INST CONTROL, ME VCP, ME BROWNFIELDS, ME...	Lower	2241, 0.424, ESE
BN340	SAINT ANDRE'S CONVEN	41 SULLIVAN STREET	ME INST CONTROL, ME VCP, ME BROWNFIELDS, ME...	Lower	2243, 0.425, ESE
BN341	SAINT ANDRE'S RECTOR	73 BACON STREET	ME VCP, ME BROWNFIELDS, ME ALLSITES	Lower	2244, 0.425, SE
BL342	KIM EATON	43 MIDDLE STREET	ME LAST	Higher	2247, 0.426, SE
BN343	SAINT ANDRE'S CHURCH	75 BACON STREET	ME VCP, ME BROWNFIELDS, ME ALLSITES	Higher	2263, 0.429, SE
BO344	GLOBAL MONTELLO GROU	70 ELM STREET	ME LUST	Lower	2272, 0.430, ENE
BP345			ME LUST	Lower	2283, 0.432, ESE
346	SARAH DIAMOND	33 BRADLEY STREET	ME LAST	Lower	2327, 0.441, NNE
BQ347	EDGEComb, NEIL	24 THORTON AVENUE	ME LAST	Lower	2384, 0.452, ENE
348	SACO ISLAND EAST	SACO ISLAND	ME VCP, ME ALLSITES	Lower	2386, 0.452, East
BR349	FORMER BOUCOUVALAS B	26 COMMON ST	ME LUST	Lower	2393, 0.453, East
BR350	TOWN OF FARMINGTON R	11 MIDDLE STREET	ME LAST, ME LUST	Lower	2406, 0.456, ENE
BP351	WHITE'S WHARF SITE	WATER STREET	SEMS-ARCHIVE, ME SHWS, ME VCP, ME ALLSITES	Lower	2411, 0.457, ESE

MAPPED SITES SUMMARY

Target Property Address:
151 ELM STREET
BIDDEFORD, ME 04005

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
BQ352	PEPPERELL BANK & TRU	270 MAIN ST	ME LAST	Lower	2436, 0.461, ENE
BP353	YORK LIGHT AND HEAT	WATER STREET	EDR MGP	Lower	2437, 0.462, ESE
BS354	FELT RESIDENCE	15 HIGH STREET	ME LAST	Lower	2449, 0.464, ESE
BQ355	MARY BOUCOUVALAS	10 CUTTS AVE	ME LAST, ME LUST	Lower	2450, 0.464, ENE
BS356	PAUL MARTIN RESIDENC	31 HIGH ST	ME LAST	Lower	2472, 0.468, ESE
BP357	PIERSON LANE APARTME	3 & 5 HIGH STREET	ME INST CONTROL, ME VCP, ME ALLSITES	Lower	2481, 0.470, ESE
358	SHAW'S SUPERMARKETS,	4 SCAMMON RD	ME SHWS, ME ALLSITES, ME AIRS	Lower	2500, 0.473, NE
BT359	ALBERT BARUEAU VEHIC	84 HIGH ST	ME LAST, ME SPILLS	Higher	2512, 0.476, SE
BT360	PROPERTY AT	65 HIGH STREET	ME LAST	Higher	2525, 0.478, SE
361	FRIENDSHIP HILL HOUS	53 OAK STREET	ME BROWNFIELDS, ME ALLSITES	Higher	2549, 0.483, SSE
BQ362		300 MAIN ST	ME SWF/LF	Lower	2554, 0.484, ENE
363	THERIAULT RESIDENCE	18 SCHOOL ST	ME LAST	Higher	2582, 0.489, SE
364	CENTER'S GARAGE GAS	321 ELM ST., RT. 1	ME LUST	Higher	2618, 0.496, SW
BS365	RENTAL PROPERTY	20 PIKE STREET	ME LAST	Lower	2622, 0.497, ESE
BT366	O'TOOL RESIDENCE	86 POOL STREET	ME LAST	Higher	2633, 0.499, SE
367	STACY GADOMSKI	1 TACHEREAU AVE	ME LAST	Higher	2634, 0.499, South
368	MACARTHUR PUBLIC LIB	MAIN ST	ME SHWS, ME ALLSITES, ME SPILLS	Lower	3698, 0.700, WNW
369	FORMER MENARD PROPER	159 CLEAVES ST	ME SHWS, ME INST CONTROL, ME ALLSITES	Lower	4048, 0.767, ESE
370	ARC SACO		ME SHWS, ME ALLSITES	Higher	4388, 0.831, NNE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
MELG UST I, LLC 151 ELM STREET/ 35 M BIDDEFORD, ME 04005	E MANIFEST	N/A
GREEN VALLEY 28052 151 ELM ST 35 MAIN S BIDDEFORD, ME	UST FINDER	N/A
GERRY PROP. #28052 151 ELM ST. BIDDEFORD, ME	ME RGA LUST	N/A
GETTY AUTO CENTER 151 ELM ST BIDDEFORD, ME 04005	EDR Hist Auto	N/A
UNKNOWN VEHICLE OWNE 151 ELM ST BIDDEFORD, ME	ME LUST Spill Value: Oil Incident Spill Number: P-779-1994 ME SPILLS Spill Number: P-911-2004	N/A
GETTY (GREEN VALLEY 151 ELM ST & 35 MAIN BIDDEFORD, ME	ME LUST Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-7-2013	N/A
GREEN VALLEY 28052 151 ELM ST 35 MAIN S BIDDEFORD, ME	ME UST Pipe Status: REMOVED Pipe Status: ACTIVE Facility Id: 3962 Tank Status: REMOVED Tank Status: ACTIVE	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state and tribal landfills and solid waste disposal facilities

ME LCP..... Municipal Landfill Closure Database

Lists of state and tribal leaking storage tanks

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

ME SWRCY..... Recycling Facilities
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
US CDL..... National Clandestine Laboratory Register

Local Land Records

ME LIENS..... Environmental Liens Information Listing
LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
ME SPILLS 90..... SPILLS 90 data from FirstSearch
ME SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

EXECUTIVE SUMMARY

DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US MINES.....	Mines Master Index File
ABANDONED MINES.....	Abandoned Mines
MINES MRDS.....	Mineral Resources Data System
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
UXO.....	Unexploded Ordnance Sites
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
PFAS NPL.....	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES.....	Federal Sites PFAS Information
PFAS TRIS.....	List of PFAS Added to the TRI
PFAS TSCA.....	PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST.....	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR.....	PFAS Contamination Site Location Listing
PFAS PROJECT.....	NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS NPDES.....	Clean Water Act Discharge Monitoring Information
PFAS ECHO FIRE TRAIN.....	Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT.....	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC.....	Aqueous Foam Related Incidents Listing
BIOSOLIDS.....	ICIS-NPDES Biosolids Facility Data
UST FINDER RELEASE.....	UST Finder Releases Database
ME UIC.....	Underground Injection Control
ME SEPTAGE.....	Septage Land Application Site

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

ME RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List
 ME RGA LF..... Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 03/27/2025 has revealed that there are 2 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
N K L TANNING INC Site ID: 0100975 EPA Id: MED001096197	72 MAIN ST	E 1/4 - 1/2 (0.386 mi.)	BM316	1488
WHITE'S WHARF SITE Site ID: 0101968 EPA Id: MED985467208	WATER STREET	ESE 1/4 - 1/2 (0.457 mi.)	BP351	1595

Lists of Federal RCRA generators

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 02/17/2025 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SOUTHERN MAINE HEALT EPA ID:: MER000506253	11 MEDICAL CENTER D	NE 1/8 - 1/4 (0.146 mi.)	X165	769

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/17/2025 has revealed that there is 1

EXECUTIVE SUMMARY

RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PRECISION SCREW MACH EPA ID:: MED982766412	GOOCH ST	ENE 0 - 1/8 (0.039 mi.)	O92	462

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 02/17/2025 has revealed that there are 2 RCRA-VSQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CRISTY'S STORE #315 EPA ID:: ME5000000265	UNKNOWN	SE 1/8 - 1/4 (0.226 mi.)	AO228	1105

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WESTPOINT PEPPERELL, EPA ID:: MED000243055	1 YORK ST	ESE 1/8 - 1/4 (0.133 mi.)	AB157	731

Lists of state- and tribal hazardous waste facilities

ME SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Protection's Uncontrolled Hazardous Substance Sites Program List of Investigations.

A review of the ME SHWS list, as provided by EDR, and dated 12/30/2024 has revealed that there are 12 ME SHWS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LAUNDRY CENTER/BOOM' Facility Id: REM02578 : COMPLAINT INVESTIGATED	250 ELAM STREET	SW 1/8 - 1/4 (0.190 mi.)	AI192	908
LEE'S FORMAL WEAR Facility Id: REM01992 : REMEDY IN PLACE: CLOSED	78 GRAHAM STREET	SSW 1/4 - 1/2 (0.288 mi.)	267	1260
WHITE STAR LAUNDRY I Facility Id: REM01832 : REMEDIATION STAGE	38 PROSPECT STREET	S 1/4 - 1/2 (0.302 mi.)	AZ274	1275
ARC SACO Facility Id: REM00813 : COMPLAINT INVESTIGATED		NNE 1/2 - 1 (0.831 mi.)	370	1641
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NKL TANNING CO.	72 MAIN ST. & SACO R	E 1/4 - 1/2 (0.327 mi.)	BC287	1342

EXECUTIVE SUMMARY

Facility Id: REM00812
: REMEDY IN PLACE: CLOSED

MAINE DRY CLEANERS (	15 PEPPERELL SQUARE	ENE 1/4 - 1/2 (0.369 mi.)	BF305	1407
Facility Id: REM02249				
: REMEDIATION STAGE				
NKL TANNING CO WAREH	72 MAIN STREET (FACT	E 1/4 - 1/2 (0.386 mi.)	BM317	1496
Facility Id: REM00805				
: REMEDY IN PLACE: CLOSED				
GAGNE BROTHERS BULK	1 WATER STREET	ESE 1/4 - 1/2 (0.392 mi.)	BK321	1505
Facility Id: REM01705				
: INVESTIGATION STAGE				
WHITE'S WHARF SITE	WATER STREET	ESE 1/4 - 1/2 (0.457 mi.)	BP351	1595
Facility Id: REM00455				
: REMEDY IN PLACE: CLOSED				
SHAW'S SUPERMARKETS,	4 SCAMMON RD	NE 1/4 - 1/2 (0.473 mi.)	358	1612
Facility Id: REM02827				
: COMPLAINT INVESTIGATED				
MACARTHUR PUBLIC LIB	MAIN ST	WNW 1/2 - 1 (0.700 mi.)	368	1637
Facility Id: REM00452				
: REMEDY IN PLACE: CLOSED				
FORMER MENARD PROPER	159 CLEAVES ST	ESE 1/2 - 1 (0.767 mi.)	369	1640
Facility Id: REM01488				
: REMEDY IN PLACE: CLOSED				

Lists of state and tribal landfills and solid waste disposal facilities

ME SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Environmental Protection's Solid Waste Facility List.

A review of the ME SWF/LF list, as provided by EDR, and dated 01/24/2025 has revealed that there are 3 ME SWF/LF sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported License Number: S-007173-WH- A-E Current Status: Active	1 SOUTH WATERBORO RO	SE 0 - 1/8 (0.110 mi.)	145	657
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported License Number: S-022316-WK- A-N Current Status: Active	110 MAIN ST SUITE 13	E 1/4 - 1/2 (0.326 mi.)	AW285	1339
Not reported License Number: S-020720-WH- A-N Current Status: Active	300 MAIN ST	ENE 1/4 - 1/2 (0.484 mi.)	BQ362	1621

EXECUTIVE SUMMARY

Lists of state and tribal leaking storage tanks

ME LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's Hazardous Material and Oil Spill System Database (H.O.S.S.).

A review of the ME LUST list, as provided by EDR, and dated 01/18/2025 has revealed that there are 69 ME LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BOB'S AUTO SVCE. GAS Spill Value: Oil Incident Spill Number: P-242-1986	166 ELM ST., RT. 1	0 - 1/8 (0.000 mi.)	E48	229
CLIFFORD INSURANCE C Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-738-2006	51 CENTER STREET	0 - 1/8 (0.000 mi.)	G49	240
PAULS GARAGE Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-437-1996	234 ELM ST. (RT 1)	SW 0 - 1/8 (0.111 mi.)	U146	658
PAULS GARAGE Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-30-1998	234 ELM ST	SW 1/8 - 1/4 (0.138 mi.)	AC160	746
Not reported Spill Value: Oil Incident Spill Number: P-567-1990		SE 1/8 - 1/4 (0.149 mi.)	AA168	834
MET BUILDING Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-350-1998	250 ELM ST	SW 1/8 - 1/4 (0.190 mi.)	AI191	905
VEILLEUX CITGO (PAUL Spill Value: Oil Incident Spill Number: P-475-1989 Spill Number: P-66-2021	80 ALFRED ST (RT. 11	SSE 1/8 - 1/4 (0.207 mi.)	AL201	970
PAUL'S VARIETY Spill Value: Oil Incident Spill Number: P-682-1992	80 ALFRED ST. (RT. 9	SSE 1/8 - 1/4 (0.207 mi.)	AL202	983
VEILLEUX OIL BULK PL Spill Value: Oil Incident Spill Number: P-80-1984		SSE 1/8 - 1/4 (0.219 mi.)	AL215	1037
VEILLEUX OIL / GAS S Spill Value: Non-Oil, Non-Hazardous Incident Spill Value: Oil Incident Spill Number: P-450-1986 Spill Number: P-460-2012 Spill Number: P-472-2012	80 ALFRED ST.	SSE 1/8 - 1/4 (0.220 mi.)	AL216	1039
CRISTO'S REST. 7-EL Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-397-1991	66 ALFRED & JEFFERSON	SE 1/8 - 1/4 (0.225 mi.)	AO224	1084
CHRISTY'S #315 Spill Value: Oil Incident Spill Value: Non-Oil, Non-Hazardous Incident	66 ALFRED STREET	SE 1/8 - 1/4 (0.226 mi.)	AO227	1091

EXECUTIVE SUMMARY

Spill Number: P-41-2020 Spill Number: P-247-2012 Spill Number: P-663-2003 Spill Number: P-463-2010 Spill Number: P-151-2004				
WHITE STAR LAUNDRY I	38 PROSPECT STREET	S 1/4 - 1/2 (0.302 mi.)	AZ274	1275
Spill Value: Oil Incident Spill Number: P-550-1994 Spill Number: P-166-1998				
Not reported		SSE 1/4 - 1/2 (0.363 mi.)	BG301	1398
Spill Value: Oil Incident Spill Number: P-779-1992				
APARTMENT BUILDING	57 BACON & PIERSON L	SE 1/4 - 1/2 (0.397 mi.)	BN325	1517
Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-627-1998				
CENTER'S GARAGE GAS	321 ELM ST., RT. 1	SW 1/4 - 1/2 (0.496 mi.)	364	1625
Spill Value: Oil Incident Spill Number: P-302-1988				
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SBC BURIAL CORP.	5 THORNTON ST.	0 - 1/8 (0.000 mi.)	B8	35
Spill Value: Oil Incident Spill Number: P-47-1999				
FILL IT UP PLEASE	103 ELM ST - RT 1	0 - 1/8 (0.000 mi.)	C11	51
Spill Value: Oil Incident Spill Number: P-708-2004 Spill Number: P-166-2004				
CENTRAL MAINE POWER	132 ELM ST.	0 - 1/8 (0.000 mi.)	D17	68
Spill Value: Oil Incident Spill Number: P-326-1995				
FILL IT UP PLEASE	102 ELM ST - RT 1	0 - 1/8 (0.000 mi.)	D18	73
Spill Value: Oil Incident Spill Number: P-519-2005				
HALEY'S TIRE MAINE	124 ELM ST. ROUTE 1	0 - 1/8 (0.000 mi.)	D22	96
Spill Value: Oil Incident Spill Number: P-793-1993				
VILLAGE MARKET	111 ELM STREET	0 - 1/8 (0.000 mi.)	B23	98
Spill Value: Oil Incident Spill Number: P-58-2010 Spill Number: P-373-2006				
BIDDEFORD VILLAGE MA	111 ELM STREET & PEA	0 - 1/8 (0.000 mi.)	B31	161
Spill Value: Oil Incident Spill Number: P-970-2014 Spill Number: P-174-2004				
QUINN'S BIKE & FITNE	138-140 ELM STREET	0 - 1/8 (0.000 mi.)	D39	196
Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-763-2014				
MERC - FORMER YORK B	1 LINCOLN ST & ELM S	0 - 1/8 (0.000 mi.)	B42	203
Spill Value: Oil Incident				

EXECUTIVE SUMMARY

Spill Number: P-177-2004				
RIVER DAM MILLYARD W	24 PEARL & SMITH ST.	0 - 1/8 (0.000 mi.)	F46	213
Spill Value: Non-Oil, Non-Hazardous Incident				
Spill Number: P-29-1998				
Spill Number: P-132-2000				
Spill Number: P-125-1997				
BUGBY BROWN	22 PEARL STREET	0 - 1/8 (0.000 mi.)	F66	306
Spill Value: Oil Incident				
Spill Number: P-296-1995				
SHELL GAS QUINN'S B	138-140 ELM ST ROUT	0 - 1/8 (0.000 mi.)	A70	321
Spill Value: Oil Incident				
Spill Number: P-322-1990				
Not reported		NE 0 - 1/8 (0.034 mi.)	N89	455
Spill Value: Oil Incident				
Spill Number: P-358-1987				
ROGER'S GARAGE	ELM ST	NE 0 - 1/8 (0.051 mi.)	N97	483
Spill Value: Non-Oil, Non-Hazardous Incident				
Spill Number: P-1-1987				
HOLLY'S SUPER GAS (F	38 ELM STREET	NE 0 - 1/8 (0.051 mi.)	N98	485
Spill Value: Non-Oil, Non-Hazardous Incident				
Spill Value: Oil Incident				
Spill Number: P-719-2017				
Spill Number: P-173-2004				
ROGERS SERVIS CENTER	ELM ST (RT. 1)	NE 0 - 1/8 (0.051 mi.)	N99	493
Spill Value: Oil Incident				
Spill Number: P-118-1980				
ROGER'S SERVICE CENT	38 ELM ST. (RT. 1)	NE 0 - 1/8 (0.056 mi.)	N102	505
Spill Value: Oil Incident				
Spill Number: P-120-1982				
Spill Number: P-797-1996				
Spill Number: P-762-1990				
Not reported		WNW 0 - 1/8 (0.057 mi.)	Q103	539
Spill Value: Oil Incident				
Spill Number: P-129-1988				
HOLLY'S (AKA ROGER'S	38 ELM ST./RT. 1	NE 0 - 1/8 (0.059 mi.)	N105	544
Spill Value: Oil Incident				
Spill Value: Non-Oil, Non-Hazardous Incident				
Spill Number: P-229-2000				
Spill Number: P-368-1998				
ROGER'S SERVICE CENT	38 ELM ST., RT. 1	NE 0 - 1/8 (0.059 mi.)	N106	548
Spill Value: Non-Oil, Non-Hazardous Incident				
Spill Number: P-371-1996				
ROGER'S SERVICE CENT	38 ELM STREET	NE 0 - 1/8 (0.059 mi.)	N109	557
Spill Value: Oil Incident				
Spill Number: P-195-1996				
Spill Number: P-310-1989				
AUTO LEAK - RP UNKNO	205 MAIN ST	ESE 0 - 1/8 (0.090 mi.)	T133	625
Spill Value: Oil Incident				
Spill Number: P-349-1989				
WEST POINT PEPPERELL	2 YORK ST.	ESE 1/8 - 1/4 (0.140 mi.)	AB162	750

EXECUTIVE SUMMARY

Spill Value: Oil Incident Spill Number: P-600-1991				
LEOS ALIGNMENT	21 MARKET ST	N 1/8 - 1/4 (0.157 mi.)	AE177	856
Spill Value: Oil Incident Spill Number: P-591-1998				
PEPPERELL TRUST CO.	155 MAIN ST.	ESE 1/8 - 1/4 (0.161 mi.)	AB181	884
Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-827-1999				
PROPERTY	148 MAIN STREET	ESE 1/8 - 1/4 (0.173 mi.)	AB185	894
Spill Value: Oil Incident Spill Number: P-707-1996				
BOB & MIKES EXXON	4 ELM ST & GREEN ST	NE 1/8 - 1/4 (0.217 mi.)	AN210	1006
Spill Value: Oil Incident Spill Number: P-930-2007				
EXXON STATION	ELM STREET	NE 1/8 - 1/4 (0.217 mi.)	AN211	1009
Spill Value: Oil Incident Spill Number: P-332-1985				
BOB'S EXXON	4 ELM ST., RT. 1	NE 1/8 - 1/4 (0.225 mi.)	AN223	1063
Spill Value: Oil Incident Spill Number: P-316-1990 Spill Number: P-472-1991				
Not reported		NW 1/8 - 1/4 (0.227 mi.)	AP230	1112
Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-842-1990				
CATARACT PROJECT-SPR	75 WATER STREET	NE 1/8 - 1/4 (0.230 mi.)	AN233	1116
Spill Value: Oil Incident Spill Number: P-750-2019				
NIKE SHOE FACTORY	SACO ISLAND	E 1/8 - 1/4 (0.238 mi.)	242	1137
Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-392-1987				
Not reported		NE 1/8 - 1/4 (0.240 mi.)	AS245	1148
Spill Value: Oil Incident Spill Number: P-98-1993				
SACO SUNOCO 1	28 ELM ST., RT. 1	NE 1/4 - 1/2 (0.306 mi.)	AV279	1297
Spill Value: Oil Incident Spill Number: P-378-1990 Spill Number: P-138-1992				
XTRAMART - SACO	28 ELM ST	NE 1/4 - 1/2 (0.306 mi.)	AV280	1315
Spill Value: Oil Incident Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-327-2020 Spill Number: P-550-2006 Spill Number: P-711-2011				
CUTTS ISLAND GROUP (	110 MAIN ST SUITE 15	E 1/4 - 1/2 (0.326 mi.)	AW286	1339
Spill Value: Hazardous Material Incident Spill Number: P-513-2001				
NKL TANNING CO.	72 MAIN ST. & SACO R	E 1/4 - 1/2 (0.327 mi.)	BC287	1342
Spill Value: Oil Incident Spill Number: P-64-1982 Spill Number: P-78-1982				
CUMBERLAND FARMS GUL	31 ELM STREET	NE 1/4 - 1/2 (0.329 mi.)	291	1359

EXECUTIVE SUMMARY

Spill Value: Oil Incident Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-323-1992 Spill Number: P-364-2015 Spill Number: P-236-1997 Spill Number: P-647-1991 Spill Number: P-305-2010				
LINDA CLARK	23 STORER ST	ENE 1/4 - 1/2 (0.350 mi.)	BE295	1381
Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-272-2003 Spill Number: P-940-2003				
Not reported		E 1/4 - 1/2 (0.367 mi.)	BC303	1403
Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-78-1987				
NIKE FACTORY	SACO ISLAND	E 1/4 - 1/2 (0.367 mi.)	BC304	1405
Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-117-1987				
Not reported		ENE 1/4 - 1/2 (0.376 mi.)	BF312	1479
Spill Value: Oil Incident Spill Number: P-83-1992				
SACO FIRE STA.	THORNTON AVE.	ENE 1/4 - 1/2 (0.383 mi.)	BE314	1483
Spill Value: Oil Incident Spill Number: P-266-1986				
SACO MOBIL	SCAMMON & RT. 1	ENE 1/4 - 1/2 (0.397 mi.)	BO326	1519
Spill Value: Oil Incident Spill Number: P-418-1986				
NOTRE DAME CONVENT	27 THORNTON AVE	ENE 1/4 - 1/2 (0.412 mi.)	BH334	1540
Spill Value: Oil Incident Spill Number: P-701-2004				
BIDDEFORD REGIONAL V	MAPLEWOOD AVENUE	WNW 1/4 - 1/2 (0.412 mi.)	335	1543
Spill Value: Oil Incident Spill Number: P-15-1996				
GAS STATION	73 ELM, RT. 1	ENE 1/4 - 1/2 (0.413 mi.)	BO336	1545
Spill Value: Oil Incident Spill Number: P-45-1988				
MIDAS MUFFLER	73 ELM STREET	ENE 1/4 - 1/2 (0.413 mi.)	BO337	1551
Spill Value: Non-Oil, Non-Hazardous Incident Spill Number: P-610-1993				
GLOBAL MONTELLO GROU	70 ELM STREET	ENE 1/4 - 1/2 (0.430 mi.)	BO344	1570
Spill Value: Oil Incident Spill Number: P-681-2016 Spill Number: P-657-1994				
Not reported		ESE 1/4 - 1/2 (0.432 mi.)	BP345	1580
Spill Value: Hazardous Material Incident Spill Number: P-253-1991				
FORMER BOUCOUVALAS B	26 COMMON ST	E 1/4 - 1/2 (0.453 mi.)	BR349	1588
Spill Value: Oil Incident Spill Number: P-743-2005				
TOWN OF FARMINGTON R	11 MIDDLE STREET	ENE 1/4 - 1/2 (0.456 mi.)	BR350	1590
Spill Value: Oil Incident				

EXECUTIVE SUMMARY

Spill Number: A-463-1993

MARY BOUCOUVALAS

Spill Value: Oil Incident

Spill Number: P-482-2002

10 CUTTS AVE

ENE 1/4 - 1/2 (0.464 mi.)

BQ355

1603

ME LAST: A listing of leaking aboveground storage tanks.

A review of the ME LAST list, as provided by EDR, and dated 01/18/2025 has revealed that there are 119 ME LAST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RENTAL UNIT Spill Number: P-210-2001	38 CENTER STREET	0 - 1/8 (0.000 mi.)	E51	243
TRYHAN APARTMENT PRO Spill Number: P-261-1996	2 KOSSUTH STREET	0 - 1/8 (0.000 mi.)	G56	274
EDWARD HIRST RESIDEN Spill Number: P-1022-2010	275 MAIN STREET	0 - 1/8 (0.000 mi.)	A60	284
COMMUNITY PARTNERS H Spill Number: P-761-2014	1 GREEN STREET	0 - 1/8 (0.000 mi.)	G61	287
UNSPECIFIED HOMEOWNE Spill Number: P-1104-2017	7 GREEN STREET	0 - 1/8 (0.000 mi.)	G68	317
RORY HOLLAND Spill Number: P-100-2003	56 SOUTH & GREEN STS	SSW 0 - 1/8 (0.009 mi.)	H76	400
EATON APARTMENTS Spill Number: P-106-2017	61 SOUTH STREET	SSW 0 - 1/8 (0.016 mi.)	H82	418
KIMBERLY EATON Spill Number: P-333-2019	61 SOUTH STREET	SSW 0 - 1/8 (0.016 mi.)	H83	420
PICKEN RESIDENCE Spill Number: P-125-2016	33 GREEN STREET	SSW 0 - 1/8 (0.048 mi.)	P96	480
WEILAND, KIM Spill Number: P-743-1997	13 CRESCENT STREET	S 0 - 1/8 (0.063 mi.)	R116	589
EATON Spill Number: P-374-2019	35 STATE STREET	W 0 - 1/8 (0.071 mi.)	118	592
MAURICE BEDARD Spill Number: P-935-2011	11 SMALLS COURT	SSW 0 - 1/8 (0.082 mi.)	V128	616
Not reported Spill Number: P-898-2006	17 WENTWORTH ST	SSW 0 - 1/8 (0.084 mi.)	V129	619
HILL STREET APARTMEN Spill Number: P-926-2018	227 ELM STREET	SW 0 - 1/8 (0.110 mi.)	U144	655
APARTMENT BUILDING Spill Number: P-688-2007	54 ADAMS ST	SSE 0 - 1/8 (0.114 mi.)	AA151	667
BORQUE RESIDENCE Spill Number: P-63-2019	102 BRADBURY STREET	SW 1/8 - 1/4 (0.155 mi.)	170	840
HUGLUND'S MEAT MARKE Spill Number: P-423-2018	50 WASHINGTON STREET	SE 1/8 - 1/4 (0.155 mi.)	AD172	845
RESIDENCE	43 WENTWORTH STREET	SSW 1/8 - 1/4 (0.157 mi.)	174	851

EXECUTIVE SUMMARY

Spill Number: P-283-2009				
APARTMENT BUILDING, Spill Number: P-239-2014	100 WASHINGTON STREE	SSE 1/8 - 1/4 (0.162 mi.)	AF182	886
LUCIENNE NASON Spill Number: P-154-2002	57 JEFFERSON ST	SE 1/8 - 1/4 (0.166 mi.)	AD183	890
ROBERT TROENCHER Spill Number: P-63-2015	38 WESTERN AVE.	W 1/8 - 1/4 (0.207 mi.)	205	990
APARTMENT BUILDING Spill Number: P-293-2011	49-51 WESTERN ST	W 1/8 - 1/4 (0.210 mi.)	AM206	993
ROGER POIRIER Spill Number: P-778-2004	15 WEST MYRTLE ST	SSW 1/4 - 1/2 (0.260 mi.)	259	1238
HENDERSON (RES) Spill Number: P-73-2008	67 WENTWORTH STREET	SSW 1/4 - 1/2 (0.273 mi.)	262	1247
MAILMAN, WAYNE Spill Number: P-795-2001	72 - 74 FOSS ST	SSE 1/4 - 1/2 (0.291 mi.)	AX268	1261
BOUCHER, DANIEL Spill Number: P-747-1996	69 FOSS ST.	SE 1/4 - 1/2 (0.295 mi.)	AX269	1263
Not reported Spill Number: P-607-2021	75 FOSS ST.	SSE 1/4 - 1/2 (0.297 mi.)	AX270	1265
SULLIVAN, RICHARD Spill Number: P-119-2018	25 POOL ST.	SE 1/4 - 1/2 (0.298 mi.)	AY271	1267
AL CHAREST Spill Number: P-95-2009	17 KING ST	SE 1/4 - 1/2 (0.298 mi.)	AY272	1272
WHITE STAR LAUNDRY I Spill Number: P-619-2002	38 PROSPECT STREET	S 1/4 - 1/2 (0.302 mi.)	AZ274	1275
DICK HALL RESIDENCE Spill Number: P-40-2007	276 LINCOLN ST	NNW 1/4 - 1/2 (0.303 mi.)	275	1288
BROWN RESIDENCE Spill Number: P-659-2012	102 FOSS ST	SSE 1/4 - 1/2 (0.305 mi.)	BA277	1291
BONNIE HARMON Spill Number: P-596-2017	15 PORTER ST.	S 1/4 - 1/2 (0.305 mi.)	AZ278	1295
ABBAS ABBAS Spill Number: P-397-2018	68-70 BIRCH STREET	SSE 1/4 - 1/2 (0.320 mi.)	BA284	1336
CONNOLLY Spill Number: P-10-2017	33 POOL STREET	SE 1/4 - 1/2 (0.328 mi.)	AY288	1349
GEORGE REGGEP Spill Number: P-1025-2003	56 MAPLE ST	N 1/4 - 1/2 (0.357 mi.)	298	1391
DOUG DARBY Spill Number: P-586-2020	57 PROSPECT ST	S 1/4 - 1/2 (0.359 mi.)	299	1393
Not reported Spill Number: P-309-2022	78 BIRCH STREET	SSE 1/4 - 1/2 (0.363 mi.)	BG300	1395
BRIAN THIDODEAU Spill Number: P-779-1995	83 HILL ST.	SE 1/4 - 1/2 (0.373 mi.)	BI307	1410
KEVIN WHITTEN Spill Number: P-548-2012	103 HILL STREET	SSE 1/4 - 1/2 (0.384 mi.)	BL315	1486
MARK ALIANO	53 POOL ST	SE 1/4 - 1/2 (0.393 mi.)	BI322	1506

EXECUTIVE SUMMARY

Spill Number: P-599-2006				
LORRAINE RUEL	21-23 LAMBERT ST	SSW 1/4 - 1/2 (0.407 mi.)	329	1528
Spill Number: P-384-1998				
KIMBERLY EATON	20 CHAPEL ST	SE 1/4 - 1/2 (0.409 mi.)	330	1531
Spill Number: P-390-2020				
MARC BOUCHER PROPERT	104 SUMMER STREET	SSE 1/4 - 1/2 (0.410 mi.)	331	1533
Spill Number: P-141-2014				
RENTAL PROPERTY	32 MIDDLE STREET	SE 1/4 - 1/2 (0.410 mi.)	BI332	1535
Spill Number: P-484-2014				
LEMIRE RESIDENCE	14 LESSARD ST.	SW 1/4 - 1/2 (0.420 mi.)	338	1558
Spill Number: P-685-1997				
KIM EATON	43 MIDDLE STREET	SE 1/4 - 1/2 (0.426 mi.)	BL342	1566
Spill Number: P-427-2014				
ALBERT BARUEAU VEHIC	84 HIGH ST	SE 1/4 - 1/2 (0.476 mi.)	BT359	1613
Spill Number: P-42-2015				
PROPERTY AT	65 HIGH STREET	SE 1/4 - 1/2 (0.478 mi.)	BT360	1619
Spill Number: P-416-2009				
THERIAULT RESIDENCE	18 SCHOOL ST	SE 1/4 - 1/2 (0.489 mi.)	363	1622
Spill Number: P-577-2001				
O'TOOL RESIDENCE	86 POOL STREET	SE 1/4 - 1/2 (0.499 mi.)	BT366	1632
Spill Number: P-406-2017				
STACY GADOMSKI	1 TACHEREAU AVE	S 1/4 - 1/2 (0.499 mi.)	367	1634
Spill Number: P-984-2003				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MAINE ENERGY RECOVER	3 LINCOLN ST	0 - 1/8 (0.000 mi.)	B27	107
Spill Number: P-499-2005				
Spill Number: P-912-2002				
Spill Number: P-171-2003				
WAREHOUSE	7 PEARL ST	0 - 1/8 (0.000 mi.)	52	245
Spill Number: P-1082-2015				
KIM EATON	9 ST MARYS ST	0 - 1/8 (0.000 mi.)	I59	281
Spill Number: P-260-2011				
HINKLEY MULTI UNIT R	15 SAINT MARYS STREE	0 - 1/8 (0.000 mi.)	I64	297
Spill Number: P-22-2015				
DEAN LESSARD	28-30 CUTTS ST	0 - 1/8 (0.000 mi.)	K69	319
Spill Number: P-699-2011				
APARTMENT BLDG AST L	14 BRADBURY ST	0 - 1/8 (0.000 mi.)	K71	325
Spill Number: P-710-2011				
LINCOLN MILL	17 LINCOLN ST	ENE 0 - 1/8 (0.005 mi.)	F73	335
Spill Number: P-908-2004				
Spill Number: P-912-2003				
Spill Number: P-16-2005				
Spill Number: P-1088-2003				
Spill Number: P-643-2015				
<i>*Additional key fields are available in the Map Findings section</i>				
DOMINOS PIZZA	52 ELM STREET	NE 0 - 1/8 (0.007 mi.)	D75	398

EXECUTIVE SUMMARY

Spill Number: P-207-2001				
OUELLETTE RESIDENCE	37 STONE STREET	ESE 0 - 1/8 (0.027 mi.)	L85	424
Spill Number: P-890-2013				
CRAIN, MERIDETH; RES	52 CUTTS STREET	WNW 0 - 1/8 (0.027 mi.)	M86	427
Spill Number: P-173-1997				
PRIMACK BUILDING	51 CUTTS STREET	W 0 - 1/8 (0.028 mi.)	M88	453
Spill Number: P-60-2014				
MULTI FAMILY RESIDEN	9 PINE STREET	NE 0 - 1/8 (0.043 mi.)	N95	478
Spill Number: P-96-2012				
HOLLY'S SUPER GAS (F	38 ELM STREET	NE 0 - 1/8 (0.051 mi.)	N98	485
Spill Number: P-173-2004				
227 MAIN GROUP	227 MAIN STREET	SE 0 - 1/8 (0.056 mi.)	L101	503
Spill Number: P-92-2014				
BETTER BAGELS / VENT	215 / 217 MAINE STRE	SE 0 - 1/8 (0.060 mi.)	L111	562
Spill Number: P-396-1996				
UNION OIL CO	372 MAIN ST	WNW 0 - 1/8 (0.061 mi.)	Q115	574
Spill Number: P-315-2006				
Spill Number: P-202-2008				
Spill Number: P-976-2006				
Spill Number: P-230-2008				
Spill Number: P-236-2005				
<i>*Additional key fields are available in the Map Findings section</i>				
ABILITY EQUIPMENT SA	378 MAIN ST	WNW 0 - 1/8 (0.075 mi.)	Q125	611
Spill Number: P-850-2011				
GIOVANNI RUSSO	42-44 IRVING STREET	N 0 - 1/8 (0.087 mi.)	130	621
Spill Number: P-489-2017				
APARTMENT BUILDING	25 IRVING ST.	N 0 - 1/8 (0.092 mi.)	W134	636
Spill Number: P-762-1995				
HENRY ELLIE	14 IRVING ST	N 0 - 1/8 (0.097 mi.)	W136	639
Spill Number: P-474-2007				
WILLIAM LANGEVIN	386-388 MAIN ST	WNW 0 - 1/8 (0.100 mi.)	Q137	642
Spill Number: P-127-2003				
BIDDEFORD TIRE COMPA	15 ELM STREET	NE 0 - 1/8 (0.104 mi.)	X139	646
Spill Number: P-16-1997				
KATE BUZZELL	395 MAIN STREET	WNW 0 - 1/8 (0.107 mi.)	Z143	653
Spill Number: P-224-2016				
BIDDEFORD LUMBER YAR	14 ELM ST - RT 1	NE 0 - 1/8 (0.112 mi.)	X148	662
Spill Number: P-256-2004				
DALTON PROPERTY	399 MAIN STREET	WNW 0 - 1/8 (0.115 mi.)	Z152	671
Spill Number: P-740-2013				
WESTPOINT HOME INC	YORK ST	ESE 1/8 - 1/4 (0.133 mi.)	AB156	723
Spill Number: P-1089-2003				
PROPERTY	409 MAIN STREET	WNW 1/8 - 1/4 (0.147 mi.)	Z166	831
Spill Number: P-656-1996				
CENTRAL MAINE POWER	165 MAIN ST.	ESE 1/8 - 1/4 (0.150 mi.)	AB169	836
Spill Number: P-361-2020				
SACO RIVER ASSOCIATE	137 MAIN STREET	ESE 1/8 - 1/4 (0.186 mi.)	AG187	900

EXECUTIVE SUMMARY

Spill Number: P-263-2018				
COASTAL COMPUTERS	132 MAIN ST	ESE 1/8 - 1/4 (0.197 mi.)	AG196	940
Spill Number: P-34-2000				
EASTLAND CONSTRUCTIO	124 MAIN STREET	ESE 1/8 - 1/4 (0.210 mi.)	AG207	996
Spill Number: P-54-2011				
52 ALFRED STREET, LL	52 ALFRED ST.	SE 1/8 - 1/4 (0.232 mi.)	AO234	1118
Spill Number: P-850-2019				
ALFREDA ROWLAND	21 LINCOLN ST	NE 1/8 - 1/4 (0.237 mi.)	AN239	1128
Spill Number: P-383-2004				
APARTMENTS	125 LINCOLN ST	NNE 1/8 - 1/4 (0.237 mi.)	AT240	1132
Spill Number: P-612-2002				
CLANCY RESIDENCE	15 HILL STREET	N 1/8 - 1/4 (0.237 mi.)	241	1135
Spill Number: P-562-2017				
UNKNOWN	20 ALFRED ST.	ESE 1/8 - 1/4 (0.239 mi.)	AR243	1145
Spill Number: P-1030-2013				
JOHNSTON RESIDENCE	17 ELM ST & STORER S	NE 1/4 - 1/2 (0.259 mi.)	AN258	1233
Spill Number: P-1006-2009				
APARTMENTS	81 LINCOLN ST	NNE 1/4 - 1/2 (0.263 mi.)	260	1240
Spill Number: P-1008-2001				
BRUCE WAKEFIELD (RES	15 HARRISON AVENUE	NNE 1/4 - 1/2 (0.269 mi.)	AT261	1245
Spill Number: P-128-2022				
CNR ENTERPRISES	20 FOSS ST.	SE 1/4 - 1/2 (0.275 mi.)	AR263	1250
Spill Number: P-563-2015				
Spill Number: P-292-2014				
SKIPPERS RESTAURANT	27 ELM	NE 1/4 - 1/2 (0.281 mi.)	AV264	1254
Spill Number: P-64-2014				
SACO ISLAND RAILROAD	ROUTE 1	E 1/4 - 1/2 (0.282 mi.)	AW265	1256
Spill Number: P-299-1999				
XTRAMART - SACO	28 ELM ST	NE 1/4 - 1/2 (0.306 mi.)	AV280	1315
Spill Number: P-358-2000				
SCOTT PERRY	36 EMERY ST	ESE 1/4 - 1/2 (0.307 mi.)	BB281	1331
Spill Number: P-907-2005				
MICHELLE WORTH	124 PLEASANT ST	NE 1/4 - 1/2 (0.316 mi.)	282	1333
Spill Number: P-77-2011				
PRIVATE RESIDENCE	149 PLEASANT STREET	NE 1/4 - 1/2 (0.328 mi.)	BD289	1351
Spill Number: P-573-1997				
BROOKFIELD RENEWABLE	119 MAIN STREET	E 1/4 - 1/2 (0.329 mi.)	290	1354
Spill Number: P-497-2019				
LISA OULLETTE	22 SPRING STREET	NE 1/4 - 1/2 (0.336 mi.)	BD292	1374
Spill Number: P-36-2018				
ROBERT SCARPELLI	171 PLEASANT ST	NE 1/4 - 1/2 (0.338 mi.)	BD293	1377
Spill Number: P-169-2008				
STAN FORTUNA	27 STORER STREET	ENE 1/4 - 1/2 (0.344 mi.)	BE294	1379
Spill Number: P-287-2007				
RAYETT APTS	32 HILL ST	ESE 1/4 - 1/2 (0.350 mi.)	BB296	1386
Spill Number: P-917-2002				
BSG PROPERTIES	172-182 MAIN STREET	ENE 1/4 - 1/2 (0.357 mi.)	BF297	1388

EXECUTIVE SUMMARY

Spill Number: P-783-2000				
AHMAD ALIJABBARI	43 PLEASANT ST	ENE 1/4 - 1/2 (0.367 mi.)	BH302	1400
Spill Number: P-55-2003				
HOLLIS CAR CARE	34 MAIN ST., ROUTE 3	E 1/4 - 1/2 (0.391 mi.)	BM320	1503
Spill Number: P-127-2012				
CLOSET	61 BACON STREET	SE 1/4 - 1/2 (0.395 mi.)	BN323	1510
Spill Number: P-131-2020				
KEN BOLSTRIDGE APART	41 THORNTON AVE.	ENE 1/4 - 1/2 (0.396 mi.)	BH324	1515
Spill Number: P-88-2015				
CANDI DENT	28 THORNTON AVE	ENE 1/4 - 1/2 (0.405 mi.)	BH328	1526
Spill Number: P-99-2006				
UNITED STATES POSTAL	225 MAIN ST	ENE 1/4 - 1/2 (0.411 mi.)	333	1538
Spill Number: P-693-2008				
MIDAS MUFFLER	73 ELM STREET	ENE 1/4 - 1/2 (0.413 mi.)	BO337	1551
Spill Number: P-915-2020				
SARAH DIAMOND	33 BRADLEY STREET	NNE 1/4 - 1/2 (0.441 mi.)	346	1582
Spill Number: P-191-2018				
EDGEComb, NEIL	24 THORTON AVENUE	ENE 1/4 - 1/2 (0.452 mi.)	BQ347	1584
Spill Number: P-216-2001				
TOWN OF FARMINGTON R	11 MIDDLE STREET	ENE 1/4 - 1/2 (0.456 mi.)	BR350	1590
Spill Number: P-850-2004				
PEPPERELL BANK & TRU	270 MAIN ST	ENE 1/4 - 1/2 (0.461 mi.)	BQ352	1598
Spill Number: P-466-2005				
FELT RESIDENCE	15 HIGH STREET	ESE 1/4 - 1/2 (0.464 mi.)	BS354	1600
Spill Number: P-621-2017				
MARY BOUCOUVALAS	10 CUTTS AVE	ENE 1/4 - 1/2 (0.464 mi.)	BQ355	1603
Spill Number: P-512-2002				
PAUL MARTIN RESIDENC	31 HIGH ST	ESE 1/4 - 1/2 (0.468 mi.)	BS356	1609
Spill Number: P-598-2010				
RENTAL PROPERTY	20 PIKE STREET	ESE 1/4 - 1/2 (0.497 mi.)	BS365	1629
Spill Number: P-241-2008				

Lists of state and tribal registered storage tanks

ME UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's Underground Storage Tank Database.

A review of the ME UST list, as provided by EDR, and dated 02/03/2025 has revealed that there are 58 ME UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RENT A CENTER Pipe Status: REMOVED Facility Id: 1675 Tank Status: REMOVED	160 ELM ST	0 - 1/8 (0.000 mi.)	E45	211
ST JOSEPH CHURCH	GREEN & SOUTH STS	0 - 1/8 (0.000 mi.)	H50	242

EXECUTIVE SUMMARY

Pipe Status: REMOVED Facility Id: 6027 Tank Status: REMOVED				
MCARTHUR LIBRARY Pipe Status: REMOVED Facility Id: 11037 Tank Status: REMOVED	270 MAIN ST	0 - 1/8 (0.000 mi.)	A57	277
BIDDEFORD CENTRAL OF Pipe Status: COMBINED_FILE Pipe Status: REMOVED Facility Id: 12721 Facility Id: 12474 Tank Status: COMBINED_FILE Tank Status: REMOVED	10 JEFFERSON ST	SSE 0 - 1/8 (0.010 mi.)	J79	408
BIDDEFORD SAVINGS BA Pipe Status: REMOVED Facility Id: 7844 Tank Status: REMOVED	254 MAIN ST	SE 0 - 1/8 (0.010 mi.)	J81	414
UNITED CHURCH OF CHR Pipe Status: ABANDONED_IN_PLACE Facility Id: 3231 Tank Status: ABANDONED_IN_PLACE	17 CRESCENT ST	S 0 - 1/8 (0.057 mi.)	R104	543
BEECH TREE ASSOCIATE Pipe Status: REMOVED Facility Id: 7636 Tank Status: REMOVED	26 SOUTH ST	SSE 0 - 1/8 (0.070 mi.)	117	591
LEDGEWOOD APTS Pipe Status: REMOVED Facility Id: 4609 Tank Status: REMOVED	9 GRAHAM ST	S 0 - 1/8 (0.072 mi.)	P119	594
SUPER SUB SHOP II Pipe Status: REMOVED Facility Id: 11019 Tank Status: REMOVED	222 ELM ST	SW 0 - 1/8 (0.081 mi.)	U126	613
MORENCY, RAYMOND Pipe Status: REMOVED Facility Id: 10709 Tank Status: REMOVED	69 ADAMS ST	SSE 0 - 1/8 (0.124 mi.)	AA154	698
PAULS GARAGE Pipe Status: REMOVED Facility Id: 4095 Tank Status: REMOVED	234 ELM ST	SW 1/8 - 1/4 (0.138 mi.)	AC161	748
DUPUIS HARDWARE Pipe Status: REMOVED Facility Id: 8743 Tank Status: REMOVED	50 WASHINGTON ST	SE 1/8 - 1/4 (0.155 mi.)	AD173	850
BIDDEFORD POST OFFIC Pipe Status: REMOVED Facility Id: 9616 Tank Status: REMOVED	ALFRED ST	SSE 1/8 - 1/4 (0.189 mi.)	AF190	904
MET BUILDING	250 ELM ST	SW 1/8 - 1/4 (0.190 mi.)	AI191	905

EXECUTIVE SUMMARY

Pipe Status: REMOVED Facility Id: 19944 Tank Status: REMOVED				
YORK COUNTY DISTRIBU	45 WESTERN AVE	W 1/8 - 1/4 (0.207 mi.)	AM204	988
Pipe Status: REMOVED Facility Id: 14266 Tank Status: REMOVED				
SRA VARIETY D/B/A PA	80 ALFRED ST	SSE 1/8 - 1/4 (0.220 mi.)	AL217	1045
Pipe Status: REMOVED Pipe Status: ABANDONED_IN_PLACE Pipe Status: ACTIVE Facility Id: 10977 Tank Status: REMOVED Tank Status: ABANDONED_IN_PLACE Tank Status: ACTIVE				
JACOBSON, PAYSON B	268 ELM ST	SW 1/8 - 1/4 (0.220 mi.)	AI220	1059
Pipe Status: REMOVED Facility Id: 14296 Tank Status: REMOVED				
7 ELEVEN 32540	66 ALFRED ST	SE 1/8 - 1/4 (0.226 mi.)	AO226	1090
Pipe Status: ACTIVE Facility Id: 18088 Tank Status: ACTIVE				
MAHONEY BUILDING	64 ALFRED ST	SE 1/8 - 1/4 (0.227 mi.)	AO229	1111
Pipe Status: REMOVED Facility Id: 14191 Tank Status: REMOVED				
BIDDEFORD PUBLIC WOR	152 ALFRED ST	S 1/8 - 1/4 (0.228 mi.)	AQ232	1115
Pipe Status: REMOVED Facility Id: 3959 Tank Status: REMOVED				
TRULL NURSING HOME I	15 MAY ST	WSW 1/8 - 1/4 (0.232 mi.)	235	1121
Pipe Status: REMOVED Facility Id: 3435 Tank Status: REMOVED				
Lower Elevation	Address	Direction / Distance	Map ID	Page
MAINE ENERGY RECOVER	3 LINCOLN ST	0 - 1/8 (0.000 mi.)	B9	37
Pipe Status: OUT_OF_SERVICE Pipe Status: ACTIVE Facility Id: 10283 Tank Status: REMOVED Tank Status: ACTIVE				
MAINE TIRE & APPLIAN	124 ELM ST	0 - 1/8 (0.000 mi.)	D15	66
Pipe Status: REMOVED Facility Id: 11487 Facility Id: 11516 Tank Status: REMOVED				
FILL IT UP PLEASE	103 ELM ST	0 - 1/8 (0.000 mi.)	C20	89
Pipe Status: REMOVED Facility Id: 8158				

EXECUTIVE SUMMARY

Tank Status: REMOVED				
BIDDEFORD VILLAGE MA Pipe Status: REMOVED Facility Id: 16735 Tank Status: REMOVED	111 ELM ST	0 - 1/8 (0.000 mi.)	B24	103
SBC BURIAL CORP Pipe Status: REMOVED Facility Id: 20081 Tank Status: REMOVED	5 THORTON ST	0 - 1/8 (0.000 mi.)	B29	159
DEVOE COLOR CENTER Pipe Status: REMOVED Facility Id: 6625 Tank Status: REMOVED	129 ELM ST	0 - 1/8 (0.000 mi.)	B30	160
YUDYS WAREHOUSE Pipe Status: REMOVED Facility Id: 12909 Tank Status: REMOVED	59 ELM ST	0 - 1/8 (0.000 mi.)	D32	167
MAINE ENERGY RECOVER Pipe Status: REMOVED Facility Id: 20869 Tank Status: REMOVED	4 LINCOLN ST	0 - 1/8 (0.000 mi.)	B35	193
QUINNS BIKE & FITNES Pipe Status: REMOVED Facility Id: 17007 Tank Status: REMOVED	138 ELM ST	0 - 1/8 (0.000 mi.)	D40	198
SAINT MARYS PARISH Pipe Status: REMOVED Facility Id: 16255 Tank Status: REMOVED	12 SAINT MARY ST	0 - 1/8 (0.000 mi.)	I54	272
DIAMOND LUMBER INC Pipe Status: REMOVED Facility Id: 9415 Tank Status: REMOVED	DIAMOND ST	0 - 1/8 (0.001 mi.)	D72	333
MAINE GLASS INC Pipe Status: REMOVED Facility Id: 3991 Tank Status: REMOVED	48 ELM ST	NE 0 - 1/8 (0.035 mi.)	N90	459
PRECISION SCREW MACH Pipe Status: REMOVED Facility Id: 11008 Tank Status: REMOVED	GOOCH ST	ENE 0 - 1/8 (0.039 mi.)	O92	462
FIVE GAS LLC Pipe Status: REMOVED Pipe Status: ABANDONED_IN_PLACE Pipe Status: ACTIVE Facility Id: 2072 Tank Status: REMOVED Tank Status: ABANDONED_IN_PLACE Tank Status: ACTIVE Tank Status: OUT_OF_SERVICE	38 ELM ST	NE 0 - 1/8 (0.059 mi.)	N107	551
UNION OIL CO OF MAIN	372 MAIN ST	WNW 0 - 1/8 (0.061 mi.)	Q113	566

EXECUTIVE SUMMARY

Pipe Status: REMOVED Facility Id: 138 Tank Status: REMOVED				
FLEET BANK Pipe Status: ABANDONED_IN_PLACE Pipe Status: REMOVED Facility Id: 8290 Tank Status: ABANDONED_IN_PLACE Tank Status: REMOVED	208 MAIN ST	ESE 0 - 1/8 (0.075 mi.)	T122	607
ROTARY PARK Pipe Status: REMOVED Facility Id: 18755 Tank Status: REMOVED	MAIN ST	ESE 0 - 1/8 (0.089 mi.)	T131	623
GILFORD RAILROAD Pipe Status: REMOVED Facility Id: 20023 Tank Status: REMOVED	MAIN ST	ESE 0 - 1/8 (0.089 mi.)	T132	624
BIDDEFORD TIRE & AUT Pipe Status: REMOVED Facility Id: 8462 Tank Status: REMOVED	15 ELM ST	NE 0 - 1/8 (0.104 mi.)	X138	645
GAMACHE ENTERPRISES Pipe Status: REMOVED Facility Id: 10007 Tank Status: REMOVED	PEARL ST	ENE 0 - 1/8 (0.105 mi.)	Y140	648
THACHER HOTEL Pipe Status: REMOVED Facility Id: 19391 Tank Status: REMOVED	1 ADAMS ST	ESE 0 - 1/8 (0.105 mi.)	T141	650
DEERING LUMBER INC Pipe Status: REMOVED Pipe Status: PLANNED Facility Id: 10187 Tank Status: REMOVED Tank Status: PLANNED	14 ELM ST	NE 0 - 1/8 (0.112 mi.)	X147	660
WEST POINT PEPPERELL Pipe Status: ABANDONED_IN_PLACE Pipe Status: REMOVED Facility Id: 886 Tank Status: ABANDONED_IN_PLACE Tank Status: REMOVED	2 YORK ST	ESE 1/8 - 1/4 (0.140 mi.)	AB163	752
LEOS ALIGNMENT CENTE Pipe Status: REMOVED Facility Id: 19997 Tank Status: REMOVED	21 MARKET ST	N 1/8 - 1/4 (0.157 mi.)	AE176	855
MAINE DISTRICT COURT Pipe Status: REMOVED Facility Id: 18975 Tank Status: REMOVED	27 WASHINGTON ST	SE 1/8 - 1/4 (0.158 mi.)	AB178	858
PEPPEREL TRUST CO Pipe Status: ABANDONED_IN_PLACE	155 MAIN ST	ESE 1/8 - 1/4 (0.161 mi.)	AB180	883

EXECUTIVE SUMMARY

Facility Id: 20248 Tank Status: ABANDONED_IN_PLACE				
148 MAIN ST FLOROS, Pipe Status: REMOVED Facility Id: 19392 Tank Status: REMOVED	148 MAIN ST	ESE 1/8 - 1/4 (0.173 mi.)	AB184	893
SACO ISLAND Pipe Status: REMOVED Facility Id: 12364 Facility Id: 12365 Tank Status: REMOVED	SACO ISLAND	E 1/8 - 1/4 (0.191 mi.)	193	909
JAMES ST PIPE YARD Pipe Status: REMOVED Facility Id: 1234 Tank Status: REMOVED	JAMES ST	WNW 1/8 - 1/4 (0.200 mi.)	AK197	942
WOOD, STEVEN D Pipe Status: REMOVED Facility Id: 4941 Tank Status: REMOVED	18 WESTERN AVE	WNW 1/8 - 1/4 (0.202 mi.)	AK200	969
BOBS AUTO SVC Pipe Status: REMOVED Facility Id: 7633 Tank Status: REMOVED	2 LINCOLN ST	NE 1/8 - 1/4 (0.221 mi.)	AN221	1060
CULLITY REALITY CO I Pipe Status: REMOVED Facility Id: 20078 Tank Status: REMOVED	38 ALFRED ST	SE 1/8 - 1/4 (0.236 mi.)	AR237	1126
FW MORSE & CO Pipe Status: REMOVED Facility Id: 12409 Tank Status: REMOVED	44 LINCOLN ST	NE 1/8 - 1/4 (0.237 mi.)	AS238	1127
EASTLAND Pipe Status: ABANDONED_IN_PLACE Facility Id: 19192 Tank Status: ABANDONED_IN_PLACE	16 ALFRED ST	ESE 1/8 - 1/4 (0.240 mi.)	AR244	1147
SACO MFG & WOODWORKI Pipe Status: REMOVED Facility Id: 18478 Tank Status: REMOVED	39 LINCOLN ST	NE 1/8 - 1/4 (0.241 mi.)	AS247	1152
BIDDEFORD POLICE DEP Pipe Status: REMOVED Facility Id: 3889 Tank Status: REMOVED	39 ALFRED ST	SE 1/8 - 1/4 (0.244 mi.)	AR250	1178
JARRY, DONALD & RICH Pipe Status: REMOVED Facility Id: 12336 Tank Status: REMOVED	119 LINCOLN ST	NNE 1/8 - 1/4 (0.246 mi.)	AT251	1180

EXECUTIVE SUMMARY

ME AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Protection's Aboveground Storage Tank Database.

A review of the ME AST list, as provided by EDR, has revealed that there are 7 ME AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VERIZON 733206 BIDDE Database: AST, Date of Government Version: 12/31/2023 Facility Status: OUTSIDE Facility Status: INSIDE	10 JEFFERSON ST	SSE 0 - 1/8 (0.010 mi.)	J80	410
BIDDEFORD SAVINGS BA Database: AST, Date of Government Version: 12/31/2023 Facility Id: FATR20147Q07B500VA6M Facility Id: FATR20187Q07B500VA6M Facility Id: FATR20177Q07B500VA6M Facility Id: FATR20217Q07B500VA6M Facility Id: FATR20157Q07B500VA6M <i>*Additional key fields are available in the Map Findings section</i>	254 MAIN ST	SE 0 - 1/8 (0.010 mi.)	J81	414
Lower Elevation	Address	Direction / Distance	Map ID	Page
MAINE ENERGY RECOVER Database: AST, Date of Government Version: 12/31/2023 Database: AST 2, Date of Government Version: 02/03/2025 Piping Status: ACTIVE Tank Status: ACTIVE Facility Status: OUTSIDE Facility Status: INSIDE Facility Id: FATR201155HAXD0029YN Facility Id: FATR201255HAXD0029YN Registration Number: 10283	3 LINCOLN STREET	0 - 1/8 (0.000 mi.)	B28	150
DR BIDDEFORD UNION B Database: AST, Date of Government Version: 12/31/2023 Facility Id: FATR20095N61LK00NVXA Facility Id: FATR20085N61LK00NVXA	372 MAIN STREET	WNW 0 - 1/8 (0.061 mi.)	Q114	567
DEERING LUMBER INC Database: AST 2, Date of Government Version: 02/03/2025 Piping Status: PLANNED Tank Status: PLANNED Registration Number: 10187	14 ELM ST	NE 0 - 1/8 (0.112 mi.)	X150	666
WESTPOINT PEPPERELL, Database: AST, Date of Government Version: 12/31/2023 Facility Status: INSIDE Facility Status: OUTSIDE	1 YORK ST	ESE 1/8 - 1/4 (0.133 mi.)	AB157	731
SOUTHERN MAINE HEALT Database: AST, Date of Government Version: 12/31/2023 Facility Id: FATR2011716SC00022T2 Facility Id: FATR2009716SC00022T2 Facility Id: FATR2012716SC00022T2 Facility Id: FATR2010716SC00022T2	1 1 MEDICAL CENTER D	NE 1/8 - 1/4 (0.146 mi.)	X165	769

EXECUTIVE SUMMARY

State and tribal institutional control / engineering control registries

ME INST CONTROL: Sites with Land Use Restrictions in place.

A review of the ME INST CONTROL list, as provided by EDR, and dated 12/30/2024 has revealed that there are 16 ME INST CONTROL sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SAPERIO OIL Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM00981	100 ALFRED STREET	SSE 1/8 - 1/4 (0.213 mi.)	AL209	1001
CHRISTY'S #315 Facility Status: TRANSFERRED TO OTHER DIVISION Facility Id: REM00979	66 ALFRED STREET	SE 1/8 - 1/4 (0.226 mi.)	AO227	1091
LEE'S FORMAL WEAR Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM01992	78 GRAHAM STREET	SSW 1/4 - 1/2 (0.288 mi.)	267	1260
EMERY SCHOOL Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM02000	116 HILL STREET	SSE 1/4 - 1/2 (0.387 mi.)	BL319	1501
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MAINE ENERGY RECOVER Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM02179	3 LINCOLN ST	0 - 1/8 (0.000 mi.)	B27	107
FILL IT UP, PLEASE Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM01522	102 ELM STREET	0 - 1/8 (0.000 mi.)	D36	194
RIVER DAM MILLYARD W Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM02396	24 PEARL & SMITH ST.	0 - 1/8 (0.000 mi.)	F46	213
RIVERDAM MILL Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM01775	24 PEARL ST	0 - 1/8 (0.000 mi.)	F65	299
OLD TANNERY Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM01999	32 MARKET STREET	N 1/8 - 1/4 (0.196 mi.)	AJ194	914
MARBLE BLOCK Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM02395	129 MAIN STREET	ESE 1/8 - 1/4 (0.201 mi.)	AG199	968
BUILDING 108 Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM01768	14 GOOCH STREET (SAC	E 1/4 - 1/2 (0.318 mi.)	AW283	1336
17 PEPPERELL SQUARE Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM03520	17 PEPPERELL SQUARE	ENE 1/4 - 1/2 (0.369 mi.)	BF306	1409
NORTH DAM MILL Facility Status: REMEDIATION STAGE Facility Id: REM01782	2 MAIN STREET	ESE 1/4 - 1/2 (0.375 mi.)	BJ308	1412
BIDDEFORD HOUSING AU	39 SULLIVAN STREET	ESE 1/4 - 1/2 (0.424 mi.)	BN339	1560

EXECUTIVE SUMMARY

Facility Status: REMEDY IN PLACE: CLOSED
Facility Id: REM02371

SAINT ANDRE'S CONVEN **41 SULLIVAN STREET** **ESE 1/4 - 1/2 (0.425 mi.)** **BN340** **1564**

Facility Status: REMEDY IN PLACE: CLOSED
Facility Id: REM02373

PIERSON LANE APARTME **3 & 5 HIGH STREET** **ESE 1/4 - 1/2 (0.470 mi.)** **BP357** **1611**

Facility Status: REMEDY IN PLACE: CLOSED
Facility Id: REM01442

Lists of state and tribal voluntary cleanup sites

ME VCP: A list of sites where the necessary investigation and/or remediation activities have been completed to the Department's satisfaction and the applicants to the VRAP have been issued final certification documents. The list does not include those sites that are currently participating in the VRAP but have not yet received certification.

A review of the ME VCP list, as provided by EDR, and dated 12/30/2024 has revealed that there are 32 ME VCP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HOGLUND'S MEAT MARKE Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM03111	50 WASHINGTON STREET	SE 1/8 - 1/4 (0.155 mi.)	AD172	845
SAPERIO OIL Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM00981	100 ALFRED STREET	SSE 1/8 - 1/4 (0.213 mi.)	AL209	1001
MAINE CLEANERS & COI Facility Status: REMEDIATION STAGE Facility Id: REM02863	99 ALFRED ST.	SSE 1/8 - 1/4 (0.218 mi.)	AL214	1036
CHRISTY'S #315 Facility Status: TRANSFERRED TO OTHER DIVISION Facility Id: REM00979	66 ALFRED STREET	SE 1/8 - 1/4 (0.226 mi.)	AO227	1091
EMERY SCHOOL Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM02000	116 HILL STREET	SSE 1/4 - 1/2 (0.387 mi.)	BL319	1501
SAINT ANDRE'S CHURCH Facility Status: REMEDIATION STAGE Facility Id: REM02370	75 BACON STREET	SE 1/4 - 1/2 (0.429 mi.)	BN343	1569
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MAINE ENERGY RECOVER Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM02179	3 LINCOLN ST	0 - 1/8 (0.000 mi.)	B27	107
FILL IT UP, PLEASE Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM01522	102 ELM STREET	0 - 1/8 (0.000 mi.)	D36	194
RIVER DAM MILLYARD W	24 PEARL & SMITH ST.	0 - 1/8 (0.000 mi.)	F46	213

EXECUTIVE SUMMARY

Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM02396				
RIVERDAM MILL LOTS 9	26-28 PEARL STREET	0 - 1/8 (0.000 mi.)	F55	273
Facility Status: REMEDIATION STAGE Facility Id: REM03000				
RIVERDAM MILL	24 PEARL ST	0 - 1/8 (0.000 mi.)	F65	299
Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM01775				
LINCOLN MILL	17 LINCOLN ST	ENE 0 - 1/8 (0.005 mi.)	F73	335
Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM01769				
DIAMOND MATCH	HORRIGAN COURT	NW 0 - 1/8 (0.096 mi.)	135	638
Facility Status: INVESTIGATION STAGE Facility Id: REM01581				
WESTPOINT STEVENS	1-15 YORK STREET, 10	ESE 1/8 - 1/4 (0.133 mi.)	AB158	744
Facility Status: REMEDIATION STAGE Facility Id: REM01984				
FPL SITE	LACONIA AND YORK STR	ESE 1/8 - 1/4 (0.188 mi.)	AH188	902
Facility Status: REMEDIATION STAGE Facility Id: REM02145				
ELEVATED PLATFORM	LACONIA & YORK STREE	ESE 1/8 - 1/4 (0.188 mi.)	AH189	903
Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM02388				
OLD TANNERY	32 MARKET STREET	N 1/8 - 1/4 (0.196 mi.)	AJ194	914
Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM01999				
MARBLE BLOCK	129 MAIN STREET	ESE 1/8 - 1/4 (0.201 mi.)	AG199	968
Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM02395				
UNIT 91	MAIN STREET, SACO IS	E 1/8 - 1/4 (0.246 mi.)	253	1205
Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM01760				
SACO ISLAND RAILROAD	ROUTE 1	E 1/4 - 1/2 (0.282 mi.)	AW265	1256
Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM01160				
SACO ISLAND WEST	SACO ISLAND	E 1/4 - 1/2 (0.282 mi.)	266	1259
Facility Status: REMEDIATION STAGE Facility Id: REM01672				
LORD PEPPERELL APART	25 WATER STREET	ENE 1/4 - 1/2 (0.300 mi.)	273	1274
Facility Status: INVESTIGATION STAGE Facility Id: REM03330				
BUILDING 108	14 GOOCH STREET (SAC	E 1/4 - 1/2 (0.318 mi.)	AW283	1336
Facility Status: REMEDY IN PLACE: CLOSED Facility Id: REM01768				
MAINE DRY CLEANERS (	15 PEPPERELL SQUARE	ENE 1/4 - 1/2 (0.369 mi.)	BF305	1407
Facility Status: REMEDIATION STAGE Facility Id: REM02249				
17 PEPPERELL SQUARE	17 PEPPERELL SQUARE	ENE 1/4 - 1/2 (0.369 mi.)	BF306	1409
Facility Status: REMEDY IN PLACE: CLOSED				

EXECUTIVE SUMMARY

Facility Id: REM03520

NORTH DAM MILL **2 MAIN STREET** **ESE 1/4 - 1/2 (0.375 mi.)** **BJ308** **1412**

Facility Status: REMEDIATION STAGE

Facility Id: REM01782

BIDDEFORD HOUSING AU **39 SULLIVAN STREET** **ESE 1/4 - 1/2 (0.424 mi.)** **BN339** **1560**

Facility Status: REMEDY IN PLACE: CLOSED

Facility Id: REM02371

SAINT ANDRE'S CONVEN **41 SULLIVAN STREET** **ESE 1/4 - 1/2 (0.425 mi.)** **BN340** **1564**

Facility Status: REMEDY IN PLACE: CLOSED

Facility Id: REM02373

SAINT ANDRE'S RECTOR **73 BACON STREET** **SE 1/4 - 1/2 (0.425 mi.)** **BN341** **1565**

Facility Status: REMEDIATION STAGE

Facility Id: REM02372

SACO ISLAND EAST **SACO ISLAND** **E 1/4 - 1/2 (0.452 mi.)** **348** **1587**

Facility Status: REMEDIATION STAGE

Facility Id: REM01671

WHITE'S WHARF SITE **WATER STREET** **ESE 1/4 - 1/2 (0.457 mi.)** **BP351** **1595**

Facility Status: REMEDY IN PLACE: CLOSED

Facility Id: REM00455

PIERSON LANE APARTME **3 & 5 HIGH STREET** **ESE 1/4 - 1/2 (0.470 mi.)** **BP357** **1611**

Facility Status: REMEDY IN PLACE: CLOSED

Facility Id: REM01442

Lists of state and tribal brownfield sites

ME BROWNFIELDS: A listing of brownfields site locations.

A review of the ME BROWNFIELDS list, as provided by EDR, and dated 12/30/2024 has revealed that there are 20 ME BROWNFIELDS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EMERY SCHOOL	116 HILL STREET	SSE 1/4 - 1/2 (0.387 mi.)	BL319	1501
Facility Status: REMEDY IN PLACE: CLOSED				
Facility Id: REM02000				
SAINT ANDRE'S CHURCH	75 BACON STREET	SE 1/4 - 1/2 (0.429 mi.)	BN343	1569
Facility Status: REMEDIATION STAGE				
Facility Id: REM02370				
FRIENDSHIP HILL HOUS	53 OAK STREET	SSE 1/4 - 1/2 (0.483 mi.)	361	1621
Facility Status: INVESTIGATION STAGE				
Facility Id: REM03110				
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RIVER DAM MILLYARD W	24 PEARL & SMITH ST.	0 - 1/8 (0.000 mi.)	F46	213
Facility Status: REMEDY IN PLACE: CLOSED				
Facility Id: REM02396				
RIVERDAM MILL LOTS 9	26-28 PEARL STREET	0 - 1/8 (0.000 mi.)	F55	273
Facility Status: REMEDIATION STAGE				

EXECUTIVE SUMMARY

Facility Id: REM03000				
RIVERDAM MILL	24 PEARL ST	0 - 1/8 (0.000 mi.)	F65	299
Facility Status: REMEDY IN PLACE: CLOSED				
Facility Id: REM01775				
LINCOLN MILL	17 LINCOLN ST	ENE 0 - 1/8 (0.005 mi.)	F73	335
Facility Status: REMEDY IN PLACE: CLOSED				
Facility Id: REM01769				
COUNTING HOUSE	90 SACO FALLS WAY	ENE 0 - 1/8 (0.072 mi.)	S120	595
Facility Status: INVESTIGATION STAGE				
Facility Id: REM02881				
DIAMOND MATCH	HORRIGAN COURT	NW 0 - 1/8 (0.096 mi.)	135	638
Facility Status: INVESTIGATION STAGE				
Facility Id: REM01581				
WESTPOINT STEVENS	1-15 YORK STREET, 10	ESE 1/8 - 1/4 (0.133 mi.)	AB158	744
Facility Status: REMEDIATION STAGE				
Facility Id: REM01984				
FPL SITE	LACONIA AND YORK STR	ESE 1/8 - 1/4 (0.188 mi.)	AH188	902
Facility Status: REMEDIATION STAGE				
Facility Id: REM02145				
OLD TANNERY	32 MARKET STREET	N 1/8 - 1/4 (0.196 mi.)	AJ194	914
Facility Status: REMEDY IN PLACE: CLOSED				
Facility Id: REM01999				
MARBLE BLOCK	129 MAIN STREET	ESE 1/8 - 1/4 (0.201 mi.)	AG199	968
Facility Status: REMEDY IN PLACE: CLOSED				
Facility Id: REM02395				
BIDDEFORD BOX CO	432 & 442 MAIN STREE	NW 1/4 - 1/2 (0.304 mi.)	276	1291
Facility Status: REMEDIATION STAGE				
Facility Id: REM01706				
NORTH DAM MILL	2 MAIN STREET	ESE 1/4 - 1/2 (0.375 mi.)	BJ308	1412
Facility Status: REMEDIATION STAGE				
Facility Id: REM01782				
WESTPOINT STEVENS BO	2 MAIN STREET	ESE 1/4 - 1/2 (0.375 mi.)	BJ310	1453
Facility Status: REMEDIATION STAGE				
Facility Id: REM03126				
GAGNE BROTHERS BULK	1 WATER STREET	ESE 1/4 - 1/2 (0.392 mi.)	BK321	1505
Facility Status: INVESTIGATION STAGE				
Facility Id: REM01705				
BIDDEFORD HOUSING AU	39 SULLIVAN STREET	ESE 1/4 - 1/2 (0.424 mi.)	BN339	1560
Facility Status: REMEDY IN PLACE: CLOSED				
Facility Id: REM02371				
SAINT ANDRE'S CONVEN	41 SULLIVAN STREET	ESE 1/4 - 1/2 (0.425 mi.)	BN340	1564
Facility Status: REMEDY IN PLACE: CLOSED				
Facility Id: REM02373				
SAINT ANDRE'S RECTOR	73 BACON STREET	SE 1/4 - 1/2 (0.425 mi.)	BN341	1565
Facility Status: REMEDIATION STAGE				
Facility Id: REM02372				

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 09/09/2024 has revealed that there are 23 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
265 MAIN STREET	265 MAIN STREET	0 - 1/8 (0.000 mi.)	J67	308
LE VOLTIGEUR SNOWSHO	207 ELM STREET	SW 0 - 1/8 (0.028 mi.)	87	429
Cleanup Completion Date: 8/1/2016				
EMERY SCHOOL	116 HILL STREET	SSE 1/4 - 1/2 (0.387 mi.)	BL318	1496
Lower Elevation	Address	Direction / Distance	Map ID	Page
FORMER MERC FACILITY	3 LINCOLN STREET	0 - 1/8 (0.000 mi.)	B21	93
SACO-LOWELL MILL	59 ELM STREET	0 - 1/8 (0.000 mi.)	D34	169
RIVERDAM MILL	24 PEARL STREET	0 - 1/8 (0.000 mi.)	F53	248
Cleanup Completion Date: 12/17/2010				
Cleanup Completion Date: 6/30/2021				
LINCOLN MILL	17 LINCOLN STREET	ENE 0 - 1/8 (0.005 mi.)	F74	371
Cleanup Completion Date: 10/20/2022				
20 & 30 GOOCH STREET	20 & 30 GOOCH STREET	ENE 0 - 1/8 (0.039 mi.)	O94	471
DIAMOND MATCH	MAIN STREET	ESE 0 - 1/8 (0.053 mi.)	L100	496
208 MAIN STREET	208 MAIN STREET	ESE 0 - 1/8 (0.075 mi.)	T121	596
COUNTING HOUSE	90 SACO FALLS WAY	E 0 - 1/8 (0.119 mi.)	S153	674
WESTPOINT STEVENS -	1-15 YORK STREET	ESE 1/8 - 1/4 (0.133 mi.)	AB155	699
Cleanup Completion Date: 12/1/2021				
WESTPOINT STEVENS -	12 YORK STREET	ESE 1/8 - 1/4 (0.141 mi.)	AB164	755
WASHINGTON STREET PO	27 WASHINGTON STREET	SE 1/8 - 1/4 (0.158 mi.)	AB179	859
OLD TANNERY SACO	32 MARKET STREET	N 1/8 - 1/4 (0.196 mi.)	AJ195	915
Cleanup Completion Date: 2/25/2015				
MARBLE BLOCK	129 MAIN STREET	ESE 1/8 - 1/4 (0.201 mi.)	AG198	944
Cleanup Completion Date: 5/27/2021				
RIVERWALK PARCEL	LACONIA ST	ESE 1/8 - 1/4 (0.218 mi.)	AG212	1011
Cleanup Completion Date: 12/5/2016				
ST. ANDRE'S CHURCH &	73 & 75 BACON STREET	SE 1/8 - 1/4 (0.241 mi.)	AR248	1153
WESTPOINT STEVENS -	100 MAIN STREET	ESE 1/8 - 1/4 (0.246 mi.)	252	1181
Cleanup Completion Date: 12/1/2021				
FORMER BIDDEFORD BOX	432-442 MAIN STREET	WNW 1/8 - 1/4 (0.247 mi.)	AP254	1206
NORTH DAM MILL	2 MAIN STREET	ESE 1/4 - 1/2 (0.375 mi.)	BJ309	1414
Cleanup Completion Date: 2/13/2014				
Cleanup Completion Date: 12/1/2021				
WESTPOINT STEVENS MI	2 MAIN STREET	ESE 1/4 - 1/2 (0.375 mi.)	BJ311	1453
Cleanup Completion Date: 8/9/2021				
GAGNE PROPERTY	18 WATER STREET	ESE 1/4 - 1/2 (0.381 mi.)	BK313	1481

EXECUTIVE SUMMARY

Local Lists of Hazardous waste / Contaminated Sites

ME ALLSITES: The Sites List Database is the public record of information regarding properties that have been, are now, or are planned to be addressed by the Division of Remediation of the Bureau of Remediation and Waste Management. This database is not intended to be a comprehensive, all-inclusive source of information regarding the properties listed therein.

A review of the ME ALLSITES list, as provided by EDR, and dated 12/30/2024 has revealed that there are 44 ME ALLSITES sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HOGLUND'S MEAT MARKE Status: REMEDY IN PLACE: CLOSED Facility ID: REM03111	50 WASHINGTON STREET	SE 1/8 - 1/4 (0.155 mi.)	AD172	845
LAUNDRY CENTER/BOOM' Status: COMPLAINT INVESTIGATED Facility ID: REM02578	250 ELAM STREET	SW 1/8 - 1/4 (0.190 mi.)	AI192	908
SAPERIO OIL Status: REMEDY IN PLACE: CLOSED Facility ID: REM00981	100 ALFRED STREET	SSE 1/8 - 1/4 (0.213 mi.)	AL209	1001
MAINE CLEANERS & COI Status: REMEDIATION STAGE Facility ID: REM02863	99 ALFRED ST.	SSE 1/8 - 1/4 (0.218 mi.)	AL214	1036
CHRISTY'S #315 Status: TRANSFERRED TO OTHER DIVISION Facility ID: REM00979	66 ALFRED STREET	SE 1/8 - 1/4 (0.226 mi.)	AO227	1091
LEE'S FORMAL WEAR Status: REMEDY IN PLACE: CLOSED Facility ID: REM01992	78 GRAHAM STREET	SSW 1/4 - 1/2 (0.288 mi.)	267	1260
WHITE STAR LAUNDRY I Status: REMEDIATION STAGE Facility ID: REM01832	38 PROSPECT STREET	S 1/4 - 1/2 (0.302 mi.)	AZ274	1275
EMERY SCHOOL Status: REMEDY IN PLACE: CLOSED Facility ID: REM02000	116 HILL STREET	SSE 1/4 - 1/2 (0.387 mi.)	BL319	1501
SAINT ANDRE'S CHURCH Status: REMEDIATION STAGE Facility ID: REM02370	75 BACON STREET	SE 1/4 - 1/2 (0.429 mi.)	BN343	1569
FRIENDSHIP HILL HOUS Status: INVESTIGATION STAGE Facility ID: REM03110	53 OAK STREET	SSE 1/4 - 1/2 (0.483 mi.)	361	1621
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MAINE ENERGY RECOVER Status: REMEDY IN PLACE: CLOSED Facility ID: REM02179	3 LINCOLN ST	0 - 1/8 (0.000 mi.)	B27	107
ADVANCE AUTO PARTS # Status: REMEDY IN PLACE: CLOSED Facility ID: REM03055	81 ELM STREET	0 - 1/8 (0.000 mi.)	C33	168
FILL IT UP, PLEASE	102 ELM STREET	0 - 1/8 (0.000 mi.)	D36	194

EXECUTIVE SUMMARY

Status: REMEDY IN PLACE: CLOSED Facility ID: REM01522				
RIVER DAM MILLYARD W Status: REMEDY IN PLACE: CLOSED Facility ID: REM02396	24 PEARL & SMITH ST.	0 - 1/8 (0.000 mi.)	F46	213
RIVERDAM MILL LOTS 9 Status: REMEDIATION STAGE Facility ID: REM03000	26-28 PEARL STREET	0 - 1/8 (0.000 mi.)	F55	273
RIVERDAM MILL Status: REMEDY IN PLACE: CLOSED Facility ID: REM01775	24 PEARL ST	0 - 1/8 (0.000 mi.)	F65	299
LINCOLN MILL Status: REMEDY IN PLACE: CLOSED Facility ID: REM01769	17 LINCOLN ST	ENE 0 - 1/8 (0.005 mi.)	F73	335
COUNTING HOUSE Status: INVESTIGATION STAGE Facility ID: REM02881	90 SACO FALLS WAY	ENE 0 - 1/8 (0.072 mi.)	S120	595
DIAMOND MATCH Status: INVESTIGATION STAGE Facility ID: REM01581	HORRIGAN COURT	NW 0 - 1/8 (0.096 mi.)	135	638
WESTPOINT STEVENS Status: REMEDIATION STAGE Facility ID: REM01984	1-15 YORK STREET, 10	ESE 1/8 - 1/4 (0.133 mi.)	AB158	744
FPL SITE Status: REMEDIATION STAGE Facility ID: REM02145	LACONIA AND YORK STR	ESE 1/8 - 1/4 (0.188 mi.)	AH188	902
ELEVATED PLATFORM Status: REMEDY IN PLACE: CLOSED Facility ID: REM02388	LACONIA & YORK STREE	ESE 1/8 - 1/4 (0.188 mi.)	AH189	903
OLD TANNERY Status: REMEDY IN PLACE: CLOSED Facility ID: REM01999	32 MARKET STREET	N 1/8 - 1/4 (0.196 mi.)	AJ194	914
MARBLE BLOCK Status: REMEDY IN PLACE: CLOSED Facility ID: REM02395	129 MAIN STREET	ESE 1/8 - 1/4 (0.201 mi.)	AG199	968
UNIT 91 Status: REMEDY IN PLACE: CLOSED Facility ID: REM01760	MAIN STREET, SACO IS	E 1/8 - 1/4 (0.246 mi.)	253	1205
SACO ISLAND RAILROAD Status: REMEDY IN PLACE: CLOSED Facility ID: REM01160	ROUTE 1	E 1/4 - 1/2 (0.282 mi.)	AW265	1256
SACO ISLAND WEST Status: REMEDIATION STAGE Facility ID: REM01672	SACO ISLAND	E 1/4 - 1/2 (0.282 mi.)	266	1259
LORD PEPPERELL APART Status: INVESTIGATION STAGE Facility ID: REM03330	25 WATER STREET	ENE 1/4 - 1/2 (0.300 mi.)	273	1274
BIDDEFORD BOX CO Status: REMEDIATION STAGE	432 & 442 MAIN STREE	NW 1/4 - 1/2 (0.304 mi.)	276	1291

EXECUTIVE SUMMARY

Facility ID: REM01706				
BUILDING 108	14 GOOCH STREET (SAC	E 1/4 - 1/2 (0.318 mi.)	AW283	1336
Status: REMEDY IN PLACE: CLOSED				
Facility ID: REM01768				
NKL TANNING CO.	72 MAIN ST. & SACO R	E 1/4 - 1/2 (0.327 mi.)	BC287	1342
Status: REMEDY IN PLACE: CLOSED				
Facility ID: REM00812				
MAINE DRY CLEANERS (	15 PEPPERELL SQUARE	ENE 1/4 - 1/2 (0.369 mi.)	BF305	1407
Status: REMEDIATION STAGE				
Facility ID: REM02249				
17 PEPPERELL SQUARE	17 PEPPERELL SQUARE	ENE 1/4 - 1/2 (0.369 mi.)	BF306	1409
Status: REMEDY IN PLACE: CLOSED				
Facility ID: REM03520				
NORTH DAM MILL	2 MAIN STREET	ESE 1/4 - 1/2 (0.375 mi.)	BJ308	1412
Status: REMEDIATION STAGE				
Facility ID: REM01782				
WESTPOINT STEVENS BO	2 MAIN STREET	ESE 1/4 - 1/2 (0.375 mi.)	BJ310	1453
Status: REMEDIATION STAGE				
Facility ID: REM03126				
NKL TANNING CO WAREH	72 MAIN STREET (FACT	E 1/4 - 1/2 (0.386 mi.)	BM317	1496
Status: REMEDY IN PLACE: CLOSED				
Facility ID: REM00805				
GAGNE BROTHERS BULK	1 WATER STREET	ESE 1/4 - 1/2 (0.392 mi.)	BK321	1505
Status: INVESTIGATION STAGE				
Facility ID: REM01705				
BIDDEFORD HOUSING AU	39 SULLIVAN STREET	ESE 1/4 - 1/2 (0.424 mi.)	BN339	1560
Status: REMEDY IN PLACE: CLOSED				
Facility ID: REM02371				
SAINT ANDRE'S CONVEN	41 SULLIVAN STREET	ESE 1/4 - 1/2 (0.425 mi.)	BN340	1564
Status: REMEDY IN PLACE: CLOSED				
Facility ID: REM02373				
SAINT ANDRE'S RECTOR	73 BACON STREET	SE 1/4 - 1/2 (0.425 mi.)	BN341	1565
Status: REMEDIATION STAGE				
Facility ID: REM02372				
SACO ISLAND EAST	SACO ISLAND	E 1/4 - 1/2 (0.452 mi.)	348	1587
Status: REMEDIATION STAGE				
Facility ID: REM01671				
WHITE'S WHARF SITE	WATER STREET	ESE 1/4 - 1/2 (0.457 mi.)	BP351	1595
Status: REMEDY IN PLACE: CLOSED				
Facility ID: REM00455				
PIERSON LANE APARTME	3 & 5 HIGH STREET	ESE 1/4 - 1/2 (0.470 mi.)	BP357	1611
Status: REMEDY IN PLACE: CLOSED				
Facility ID: REM01442				
SHAW'S SUPERMARKETS,	4 SCAMMON RD	NE 1/4 - 1/2 (0.473 mi.)	358	1612
Status: COMPLAINT INVESTIGATED				
Facility ID: REM02827				

EXECUTIVE SUMMARY

ME DEL SHWS: Sites are removed from the List once it is determined that they are not "worthy of listing". This term is used as there are a number of reasons to remove a site from the List, including: no file exists, the site was reported as an oil spill, there is no evidence of a hazardous substance release or based on an investigation the site is referred to another program unrelated to hazardous substance or hazardous waste. Sites are removed on a case by case basis. The USP intends this to be an on-going process, as time and resources allow.

A review of the ME DEL SHWS list, as provided by EDR, and dated 12/30/2024 has revealed that there are 2 ME DEL SHWS sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
W. POINT PEPPERELL Facility Id: REM00449 Facility Status: NO FURTHER ACTION	170 MAIN STREET	ESE 1/8 - 1/4 (0.148 mi.)	AB167	833
BIDDEFORD HOUSING AU Facility Id: REM02371	39 SULLIVAN STREET	ESE 1/4 - 1/2 (0.424 mi.)	BN339	1560

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/17/2025 has revealed that there are 8 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NEW ENGLAND TEL CO C EPA ID:: MED980512339	10 JEFFERSON ST	SSE 0 - 1/8 (0.010 mi.)	J77	404
DUPUIS HARDWARE & LO EPA ID:: MER000504357	50 WASHINGTON STREET	SE 1/8 - 1/4 (0.155 mi.)	AD171	843
PAUL S VARIETY EPA ID:: MEP000021440	80 ALFRED STREET	SSE 1/8 - 1/4 (0.220 mi.)	AL218	1052
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
STANDARD AUTO SUPPLY EPA ID:: MED981202161	81 ELM ST	0 - 1/8 (0.000 mi.)	C14	64
ADVANCE AUTO PARTS # EPA ID:: MED057976722	81 ELM ST	0 - 1/8 (0.000 mi.)	C19	77
CARQUEST #1539 EPA ID:: MER000507913	81 ELM STREET	0 - 1/8 (0.000 mi.)	C41	200
G W N CO EPA ID:: MED985466275	8 LINCOLN ST.	0 - 1/8 (0.000 mi.)	F58	278
SHERWIN WILLIAMS CO EPA ID:: MED000791343	143 MAIN ST	ESE 1/8 - 1/4 (0.176 mi.)	AB186	896

EXECUTIVE SUMMARY

PFAS WQP: The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

A review of the PFAS WQP list, as provided by EDR, and dated 12/13/2024 has revealed that there is 1 PFAS WQP site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SACO RIVER		NW 1/8 - 1/4 (0.247 mi.)	AU256	1217

PFAS ECHO: Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

A review of the PFAS ECHO list, as provided by EDR, and dated 12/30/2024 has revealed that there are 3 PFAS ECHO sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
G W N CO		0 - 1/8 (0.000 mi.)	F47	228
MAINE ENERGY RECOVER		ENE 0 - 1/8 (0.107 mi.)	Y142	651
WESTPOINT STEVENS MI		SE 1/8 - 1/4 (0.212 mi.)	AG208	998

UST FINDER: EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories. UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

A review of the UST FINDER list, as provided by EDR, and dated 06/08/2023 has revealed that there are 16 UST FINDER sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RENT A CENTER	160 ELM ST	0 - 1/8 (0.000 mi.)	E44	210
CLIFFORD, GREGORY F	49 & 59 CENTER STS	0 - 1/8 (0.000 mi.)	G62	295
YORK COUNTY DISTRIBU	45 WESTERN AVE	W 1/8 - 1/4 (0.207 mi.)	AM203	987
SRA VARIETY D/B/A PA	80 ALFRED ST	SSE 1/8 - 1/4 (0.220 mi.)	AL219	1057
7 ELEVEN 32540	66 ALFRED ST	SE 1/8 - 1/4 (0.226 mi.)	AQ225	1089
BIDDEFORD PUBLIC WOR	152 ALFRED ST	S 1/8 - 1/4 (0.228 mi.)	AQ231	1114
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FILL IT UP PLEASE	103 ELM ST	0 - 1/8 (0.000 mi.)	C12	61
SBC BURIAL CORP	5 THORTON ST	0 - 1/8 (0.000 mi.)	B13	63
BIDDEFORD VILLAGE MA	111 ELM ST	0 - 1/8 (0.000 mi.)	B25	105
MAINE GLASS INC	48 ELM ST	NE 0 - 1/8 (0.035 mi.)	N91	461
FIVE GAS LLC	38 ELM ST	NE 0 - 1/8 (0.059 mi.)	N108	555
UNION OIL CO OF MAIN	372 MAIN ST	WNW 0 - 1/8 (0.061 mi.)	Q112	565
FLEET BANK	208 MAIN ST	ESE 0 - 1/8 (0.075 mi.)	T123	608
DEERING LUMBER INC	14 ELM ST	NE 0 - 1/8 (0.112 mi.)	X149	665
LEOS ALIGNMENT CENTE	21 MARKET ST	N 1/8 - 1/4 (0.157 mi.)	AE175	854

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BIDDEFORD POLICE DEP	39 ALFRED ST	SE 1/8 - 1/4 (0.244 mi.)	AR249	1177

E MANIFEST: EPA established a national system for tracking hazardous waste shipments electronically. This system, known as e-Manifest, will modernize the nation's cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

A review of the E MANIFEST list, as provided by EDR, and dated 02/17/2025 has revealed that there are 8 E MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NEW ENGLAND TEL CO C	10 JEFFERSON ST	SSE 0 - 1/8 (0.010 mi.)	J78	406
PAUL S VARIETY	80 ALFRED STREET	SSE 1/8 - 1/4 (0.220 mi.)	AL218	1052
CRISTY'S STORE #315	UNKNOWN	SE 1/8 - 1/4 (0.226 mi.)	AO228	1105
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ADVANCE AUTO PARTS #	81 ELM ST	0 - 1/8 (0.000 mi.)	C19	77
SOUTHERN MAINE HEALT	11 MEDICAL CENTER D	NE 1/8 - 1/4 (0.146 mi.)	X165	769
BOB'S AUTO SERVICE	2 LINCOLN STREET	NE 1/8 - 1/4 (0.221 mi.)	AN222	1061
US DOJ?DEA CLET	73 WATER ST	ENE 1/8 - 1/4 (0.233 mi.)	AN236	1122
SACO MANUFACTURING A	39 LINCOLN STREET	NE 1/8 - 1/4 (0.241 mi.)	AS246	1150

ME PFAS: PFOS and PFOA stand for perfluorooctane sulfonate and perfluorooctanoic acid, respectively. Both are fluorinated organic chemicals, part of a larger family of compounds referred to as perfluoroalkyl substances (PFASs).

A review of the ME PFAS list, as provided by EDR, and dated 12/20/2024 has revealed that there are 2 ME PFAS sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SACO RIVER-MER9-0905	SACO RIVER-MER9-0905	NW 1/8 - 1/4 (0.247 mi.)	AU255	1211
SACO RIVER-FW08ME019	SACO RIVER-FW08ME019	NW 1/8 - 1/4 (0.247 mi.)	AU257	1227

ME DRYCLEANERS: A listing of drycleaning facilities that use perchloroethylene.

A review of the ME DRYCLEANERS list, as provided by EDR, and dated 08/06/2024 has revealed that there is 1 ME DRYCLEANERS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MAINE DRY CLEANERS Facility Id: 22	99 ALFRED ROAD	SSE 1/8 - 1/4 (0.218 mi.)	AL213	1035

EXECUTIVE SUMMARY

ME MANIFEST: Hazardous waste manifest information

A review of the ME MANIFEST list, as provided by EDR, and dated 06/30/2018 has revealed that there is 1 ME MANIFEST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PRECISION SCREW MACH	GOOCH ST	ENE 0 - 1/8 (0.039 mi.)	O93	469

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2018 has revealed that there is 1 NJ MANIFEST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SOUTHERN MAINE HEALT EPA Id: MER000506253	11 MEDICAL CENTER D	NE 1/8 - 1/4 (0.146 mi.)	X165	769

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 06/30/2018 has revealed that there is 1 PA MANIFEST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WESTPOINT STEVENS BI Generator EPA Id: MED000243055	ONE YORK ST	ESE 1/8 - 1/4 (0.134 mi.)	AB159	746

RI MANIFEST: Hazardous waste manifest information

A review of the RI MANIFEST list, as provided by EDR, and dated 12/31/2020 has revealed that there are 2 RI MANIFEST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ADVANCE AUTO PARTS # EPA Id: MED057976722 Manifest Document Number: MEG001154	81 ELM ST	0 - 1/8 (0.000 mi.)	C19	77
WESTPOINT PEPPERELL, EPA Id: MED000243055 Manifest Document Number: MEE004472	1 YORK ST	ESE 1/8 - 1/4 (0.133 mi.)	AB157	731

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 12/31/2019 has revealed that there are 3 NY MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BIDDEFORD SAVINGS BA	253 MAIN ST	SE 0 - 1/8 (0.016 mi.)	J84	422

EXECUTIVE SUMMARY

EPA ID: MEP000012508

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FORMER MAIN ENERGY R EPA ID: MEP000019760	3 LINCOLN ST	0 - 1/8 (0.000 mi.)	B10	41
DON'S SHEET METAL SH EPA ID: MEP000007507	378 MAIN STREET	WNW 0 - 1/8 (0.075 mi.)	Q124	609

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there are 2 EDR MGP sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WHITES WHARF SITE	WATER STREET	ESE 1/4 - 1/2 (0.403 mi.)	BJ327	1525
YORK LIGHT AND HEAT	WATER STREET	ESE 1/4 - 1/2 (0.462 mi.)	BP353	1600

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 8 EDR Hist Auto sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BIDDEFORD GETTY PETR	158 ELM ST	0 - 1/8 (0.000 mi.)	A43	210
CABORETTE FERNAND A	MAIN & ELM STS	0 - 1/8 (0.000 mi.)	A63	296
SEVIGNY RAOUL D JR	222 ELM ST	SW 0 - 1/8 (0.081 mi.)	U127	616
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HAROLDS SERVICE STAT	53 ELM ST	0 - 1/8 (0.000 mi.)	D16	68
PELLETIER GERALD & S	111 ELM ST	0 - 1/8 (0.000 mi.)	B26	106

EXECUTIVE SUMMARY

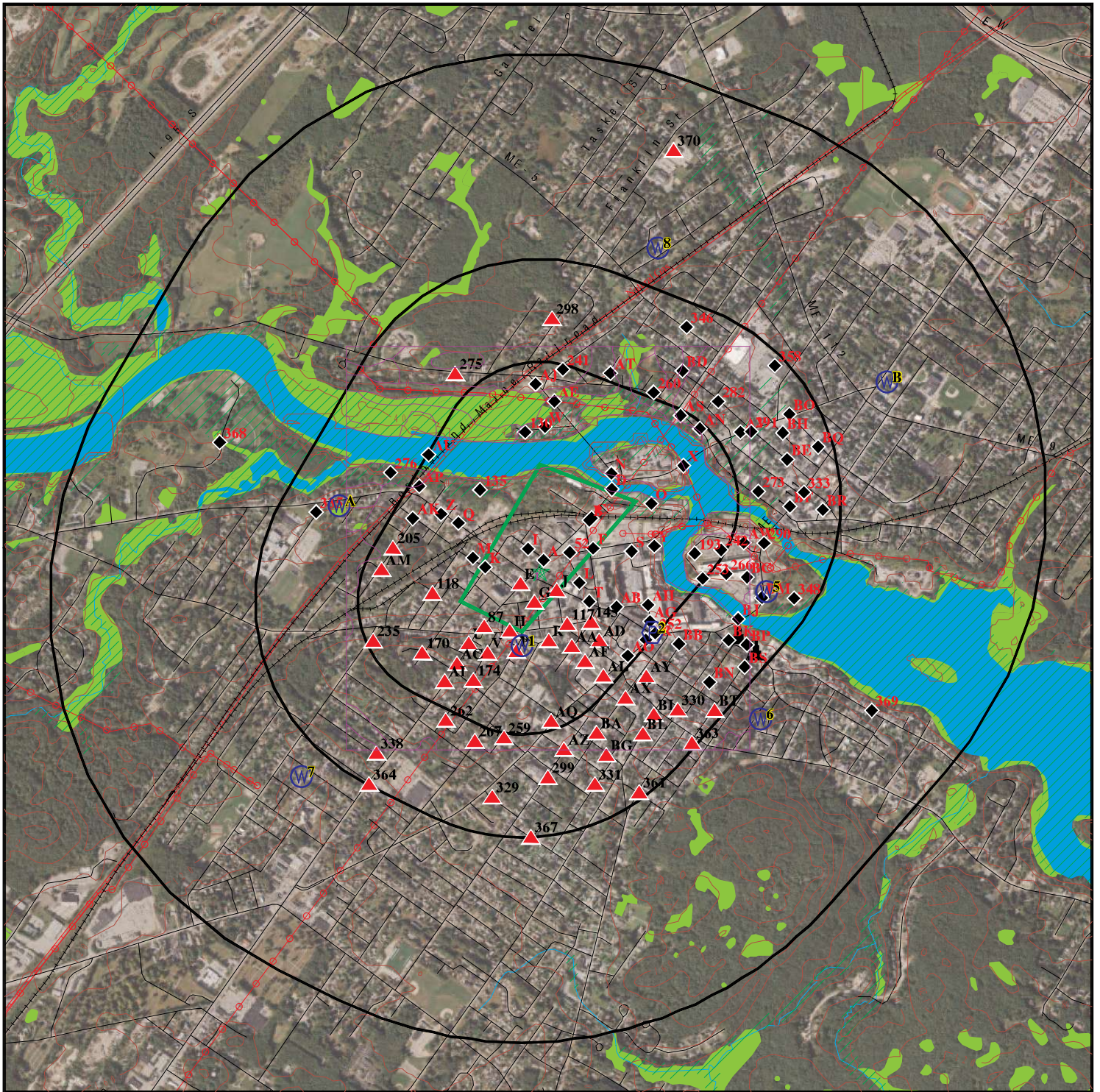
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LABI INC	102 ELM ST	0 - 1/8 (0.000 mi.)	D37	195
SOULIERE & SONS	138 ELM ST	0 - 1/8 (0.000 mi.)	D38	195
ROGERS SERVICE CENTE	38 ELM ST	NE 0 - 1/8 (0.059 mi.)	N110	561

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 22 records.

Site Name	Database(s)
LEATHER COMFORT, CORP.	PRP
BIDDEFORD GOODWILL STORE	ME SWRCY
SACO LOWELL MILL	ME INST CONTROL, ME VCP, ME BROWNFIELDS, ME ALLSITES
BOB HUOT RESIDENCE	ME LAST
PROPERTY AT END OF ROAD	ME LAST
TRUDO PROPERTY, APARTMMENTS	ME LAST
CHIALFI	ME LAST
BIDDEFORD/SACO WATER PUMP STATION	ME LAST
SACO RIVER ASSOCIATION	ME LAST
CITY OF BIDDEFORD - CSO SITE	ME LAST
FIRST PARISH CONG. CHURCH	ME LAST
BERTHA DAWN	ME LAST
SASTERE RESIDENCE	ME LAST
WESTINGHOUSE DRY CLEANING	ME DRYCLEANERS
5-POINTS SHOP CTR (J & B DISC)	ME LUST
BIDDEFORD IRVING BLUE CANOE	ME LUST
WILENSKY BUILDING	ME LUST
BIDDEFORD-SACO-OLD ORCHARD BEACH T	ME LUST
BIG APPLE CITGO (FORMER MOBIL MART	ME LUST
UNIVERSITY OF NEW ENGLAND	ME LUST
FORMER GAS STATION-SEWERS	ME LUST
CITY OF BIDDEFORD PROPERTY	ME SPILLS

OVERVIEW MAP - 07987081.2R



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Pipelines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

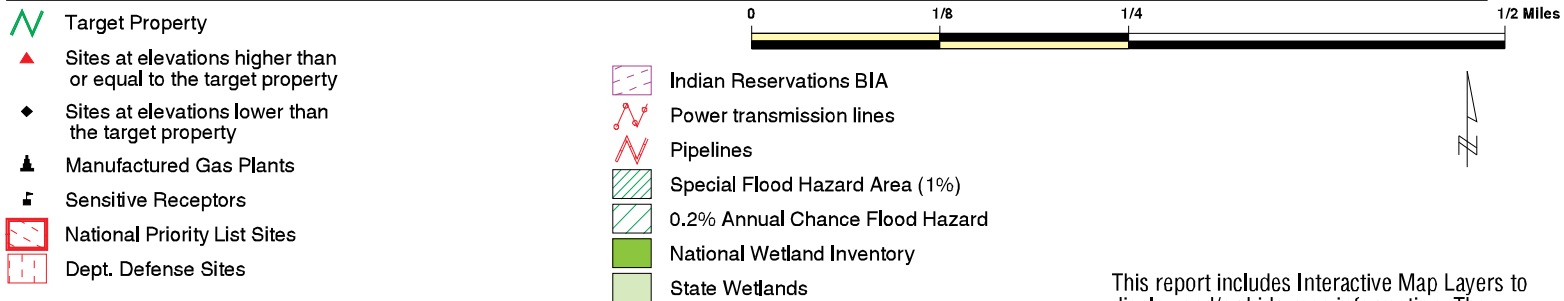
State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Biddeford
ADDRESS: 151 Elm Street
Biddeford ME 04005
LAT/LONG: 43.494666 / 70.458829

CLIENT: Haley & Aldrich, Inc.
CONTACT: Tyler Ramey
INQUIRY #: 07987081.2r
DATE: May 13, 2025 1:42 pm

DETAIL MAP - 07987081.2R



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Biddeford
ADDRESS: 151 Elm Street
Biddeford ME 04005
LAT/LONG: 43.494666 / 70.458829

CLIENT: Haley & Aldrich, Inc.
CONTACT: Tyler Ramey
INQUIRY #: 07987081.2r
DATE: May 13, 2025 1:43 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Lists of Federal NPL (Superfund) sites</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	0	2	NR	NR	2
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-VSQG	0.250		0	2	NR	NR	NR	2
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>Lists of state- and tribal hazardous waste facilities</i>								
ME SHWS	1.000		0	1	8	3	NR	12
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
ME SWF/LF	0.500		1	0	2	NR	NR	3
ME LCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal leaking storage tanks</i>								
ME LUST	0.500	2	25	20	24	NR	NR	71

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ME LAST	0.500		40	18	61	NR	NR	119
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
ME UST	0.250	1	32	26	NR	NR	NR	59
ME AST	0.250		5	2	NR	NR	NR	7
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
ME INST CONTROL	0.500		4	4	8	NR	NR	16
<i>Lists of state and tribal voluntary cleanup sites</i>								
ME VCP	0.500		7	10	15	NR	NR	32
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
ME BROWNFIELDS	0.500		6	4	10	NR	NR	20
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		10	9	4	NR	NR	23
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
ME SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
ME ALLSITES	0.500		9	11	24	NR	NR	44
ME DEL SHWS	1.000		0	1	1	0	NR	2
US CDL	TP		NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
ME LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	TP		NR	NR	NR	NR	NR	0
ME SPILLS	TP	1	NR	NR	NR	NR	NR	1
ME SPILLS 90	TP		NR	NR	NR	NR	NR	0
ME SPILLS 80	TP		NR	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA NonGen / NLR	0.250		5	3	NR	NR	NR	8

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	1	NR	NR	NR	1
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		2	1	NR	NR	NR	3
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST FINDER	0.250	1	10	6	NR	NR	NR	17
UST FINDER RELEASE	0.500		0	0	0	NR	NR	0
E MANIFEST	0.250	1	2	6	NR	NR	NR	9
ME PFAS	0.250		0	2	NR	NR	NR	2
ME AIRS	TP		NR	NR	NR	NR	NR	0
ME DRYCLEANERS	0.250		0	1	NR	NR	NR	1
ME MANIFEST	0.250		1	0	NR	NR	NR	1
NJ MANIFEST	0.250		0	1	NR	NR	NR	1
PA MANIFEST	0.250		0	1	NR	NR	NR	1
RI MANIFEST	0.250		1	1	NR	NR	NR	2
NY MANIFEST	0.250		3	0	NR	NR	NR	3
ME NPDES	TP		NR	NR	NR	NR	NR	0
ME TIER 2	TP		NR	NR	NR	NR	NR	0
ME UIC	TP		NR	NR	NR	NR	NR	0
ME SEPTAGE	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	2	0	NR	2
EDR Hist Auto	0.125	1	8	NR	NR	NR	NR	9
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

ME RGA HWS	TP		NR	NR	NR	NR	NR	0
ME RGA LF	TP		NR	NR	NR	NR	NR	0
ME RGA LUST	TP	1	NR	NR	NR	NR	NR	1

- Totals --		8	172	132	161	3	0	476
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

APPENDIX B

Laboratory Report



ANALYTICAL REPORT

Lab Number:	L2534336
Client:	Haley & Aldrich 75 Washington Avenue Suite 1A Portland, ME 04101-2617
ATTN:	Dave Dearden
Phone:	(207) 482-4600
Project Name:	BIDDEFORD
Project Number:	0208555-102
Report Date:	06/16/25

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2534336-01	GP-102-6-8	SOIL	BIDDEFORD, ME	06/02/25 21:40	06/03/25
L2534336-02	GP-104-7-7.5	SOIL	BIDDEFORD, ME	06/02/25 22:40	06/03/25
L2534336-03	GP-105-6-7	SOIL	BIDDEFORD, ME	06/02/25 23:00	06/03/25
L2534336-04	GP-106-6-7	SOIL	BIDDEFORD, ME	06/02/25 23:20	06/03/25
L2534336-05	GP-107-6.5-7.5	SOIL	BIDDEFORD, ME	06/02/25 23:50	06/03/25



Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Case Narrative (continued)

Volatile Organics

L2534336-02D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L2534336-02D: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (168%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

L2534336-03: The acetone result should be considered estimated due to co-elution with a non-target compound.

VPH

L2534336-01: The surrogate recoveries were outside the acceptance criteria for 2,5-dibromotoluene-pid (146%) and 2,5-dibromotoluene-fid (148%); however, re-analysis achieved similar results: 2,5-dibromotoluene-pid (140%) and 2,5-dibromotoluene-fid (149%). The results of the original analysis are reported.

L2534336-04: The surrogate recovery was outside the acceptance criteria for 2,5-dibromotoluene-fid (133%); however, re-analysis achieved a similar result: 2,5-dibromotoluene-fid (144%). The results of the original analysis are reported.

The WG2077564-3 LCSD recovery associated with L2534336-01 through -05 is outside the acceptance criteria for pentane (62%); however, the target carbon ranges and analytes are within overall method allowances. The results of the original analysis are reported.

Total Metals

L2534336-01 through -05: The sample has an elevated detection limit due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Melissa Sturgis

Title: Technical Director/Representative

Date: 06/16/25

ORGANICS

VOLATILES

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-01
 Client ID: GP-102-6-8
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 21:40
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 06/13/25 10:00
 Analyst: MNF
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.8	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	ND		ug/kg	0.62	--	1
Chlorobenzene	ND		ug/kg	0.62	--	1
Trichlorofluoromethane	ND		ug/kg	4.9	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	--	1
Bromodichloromethane	ND		ug/kg	0.62	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	--	1
1,1-Dichloropropene	ND		ug/kg	0.62	--	1
Bromoform	ND		ug/kg	4.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	--	1
Benzene	ND		ug/kg	0.62	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	4.9	--	1
Bromomethane	ND		ug/kg	2.5	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.5	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	--	1

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-01
 Client ID: GP-102-6-8
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 21:40
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	--	1
Methyl tert butyl ether	ND		ug/kg	2.5	--	1
p/m-Xylene	ND		ug/kg	2.5	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.5	--	1
1,4-Dichlorobutane	ND		ug/kg	12	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	ND		ug/kg	31	--	1
Carbon disulfide	ND		ug/kg	12	--	1
2-Butanone	ND		ug/kg	12	--	1
Vinyl acetate	ND		ug/kg	12	--	1
4-Methyl-2-pentanone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Ethyl methacrylate	ND		ug/kg	12	--	1
Acrylonitrile	ND		ug/kg	4.9	--	1
Bromochloromethane	ND		ug/kg	2.5	--	1
Tetrahydrofuran	ND		ug/kg	4.9	--	1
2,2-Dichloropropane	ND		ug/kg	2.5	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	--	1
Bromobenzene	ND		ug/kg	2.5	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.5	--	1
o-Chlorotoluene	ND		ug/kg	2.5	--	1
p-Chlorotoluene	ND		ug/kg	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	--	1
Hexachlorobutadiene	ND		ug/kg	4.9	--	1

Project Name: BIDDEFORD

Lab Number: L2534336

Project Number: 0208555-102

Report Date: 06/16/25

SAMPLE RESULTS

Lab ID: L2534336-01

Date Collected: 06/02/25 21:40

Client ID: GP-102-6-8

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	4.9	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	--	1
Ethyl ether	ND		ug/kg	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	144	Q	70-130
Dibromofluoromethane	108		70-130

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-02 D

Date Collected: 06/02/25 22:40

Client ID: GP-104-7-7.5

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260D

Analytical Date: 06/10/25 13:44

Analyst: JIC

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	450	--	2
1,1-Dichloroethane	ND		ug/kg	90	--	2
Chloroform	ND		ug/kg	140	--	2
Carbon tetrachloride	ND		ug/kg	90	--	2
1,2-Dichloropropane	ND		ug/kg	90	--	2
Dibromochloromethane	ND		ug/kg	90	--	2
1,1,2-Trichloroethane	ND		ug/kg	90	--	2
Tetrachloroethene	ND		ug/kg	45	--	2
Chlorobenzene	ND		ug/kg	45	--	2
Trichlorofluoromethane	ND		ug/kg	360	--	2
1,2-Dichloroethane	ND		ug/kg	90	--	2
1,1,1-Trichloroethane	ND		ug/kg	45	--	2
Bromodichloromethane	ND		ug/kg	45	--	2
trans-1,3-Dichloropropene	ND		ug/kg	90	--	2
cis-1,3-Dichloropropene	ND		ug/kg	45	--	2
1,3-Dichloropropene, Total	ND		ug/kg	45	--	2
1,1-Dichloropropene	ND		ug/kg	45	--	2
Bromoform	ND		ug/kg	360	--	2
1,1,2,2-Tetrachloroethane	ND		ug/kg	45	--	2
Benzene	ND		ug/kg	45	--	2
Toluene	ND		ug/kg	90	--	2
Ethylbenzene	ND		ug/kg	90	--	2
Chloromethane	ND		ug/kg	360	--	2
Bromomethane	ND		ug/kg	180	--	2
Vinyl chloride	ND		ug/kg	90	--	2
Chloroethane	ND		ug/kg	180	--	2
1,1-Dichloroethene	ND		ug/kg	90	--	2
trans-1,2-Dichloroethene	ND		ug/kg	140	--	2

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-02 D

Date Collected: 06/02/25 22:40

Client ID: GP-104-7-7.5

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	45	--	2
1,2-Dichlorobenzene	ND		ug/kg	180	--	2
1,3-Dichlorobenzene	ND		ug/kg	180	--	2
1,4-Dichlorobenzene	ND		ug/kg	180	--	2
Methyl tert butyl ether	ND		ug/kg	180	--	2
p/m-Xylene	ND		ug/kg	180	--	2
o-Xylene	ND		ug/kg	90	--	2
Xylenes, Total	ND		ug/kg	90	--	2
cis-1,2-Dichloroethene	ND		ug/kg	90	--	2
1,2-Dichloroethene, Total	ND		ug/kg	90	--	2
Dibromomethane	ND		ug/kg	180	--	2
1,4-Dichlorobutane	ND		ug/kg	900	--	2
1,2,3-Trichloropropane	ND		ug/kg	180	--	2
Styrene	ND		ug/kg	90	--	2
Dichlorodifluoromethane	ND		ug/kg	900	--	2
Acetone	ND		ug/kg	900	--	2
Carbon disulfide	ND		ug/kg	900	--	2
2-Butanone	ND		ug/kg	900	--	2
Vinyl acetate	ND		ug/kg	900	--	2
4-Methyl-2-pentanone	ND		ug/kg	900	--	2
2-Hexanone	ND		ug/kg	900	--	2
Ethyl methacrylate	ND		ug/kg	900	--	2
Acrylonitrile	ND		ug/kg	360	--	2
Bromochloromethane	ND		ug/kg	180	--	2
Tetrahydrofuran	ND		ug/kg	360	--	2
2,2-Dichloropropane	ND		ug/kg	180	--	2
1,2-Dibromoethane	ND		ug/kg	90	--	2
1,3-Dichloropropane	ND		ug/kg	180	--	2
1,1,1,2-Tetrachloroethane	ND		ug/kg	45	--	2
Bromobenzene	ND		ug/kg	180	--	2
n-Butylbenzene	ND		ug/kg	90	--	2
sec-Butylbenzene	130		ug/kg	90	--	2
tert-Butylbenzene	ND		ug/kg	180	--	2
o-Chlorotoluene	ND		ug/kg	180	--	2
p-Chlorotoluene	ND		ug/kg	180	--	2
1,2-Dibromo-3-chloropropane	ND		ug/kg	270	--	2
Hexachlorobutadiene	ND		ug/kg	360	--	2

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

SAMPLE RESULTS

Lab ID: L2534336-02 D
 Client ID: GP-104-7-7.5
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 22:40
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Isopropylbenzene	ND		ug/kg	90	--	2
p-Isopropyltoluene	180		ug/kg	90	--	2
Naphthalene	ND		ug/kg	360	--	2
n-Propylbenzene	ND		ug/kg	90	--	2
1,2,3-Trichlorobenzene	ND		ug/kg	180	--	2
1,2,4-Trichlorobenzene	ND		ug/kg	180	--	2
1,3,5-Trimethylbenzene	ND		ug/kg	180	--	2
1,2,4-Trimethylbenzene	ND		ug/kg	180	--	2
trans-1,4-Dichloro-2-butene	ND		ug/kg	450	--	2
Ethyl ether	ND		ug/kg	180	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	84		70-130
4-Bromofluorobenzene	168	Q	70-130
Dibromofluoromethane	102		70-130

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-03
 Client ID: GP-105-6-7
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 23:00
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 06/12/25 11:28
 Analyst: AJK
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	--	1
1,1-Dichloroethane	ND		ug/kg	0.97	--	1
Chloroform	ND		ug/kg	1.4	--	1
Carbon tetrachloride	ND		ug/kg	0.97	--	1
1,2-Dichloropropane	ND		ug/kg	0.97	--	1
Dibromochloromethane	ND		ug/kg	0.97	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	--	1
Tetrachloroethene	ND		ug/kg	0.49	--	1
Chlorobenzene	ND		ug/kg	0.49	--	1
Trichlorofluoromethane	ND		ug/kg	3.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.97	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	--	1
Bromodichloromethane	ND		ug/kg	0.49	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	--	1
1,1-Dichloropropene	ND		ug/kg	0.49	--	1
Bromoform	ND		ug/kg	3.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	--	1
Benzene	1.0		ug/kg	0.49	--	1
Toluene	ND		ug/kg	0.97	--	1
Ethylbenzene	4.0		ug/kg	0.97	--	1
Chloromethane	ND		ug/kg	3.9	--	1
Bromomethane	ND		ug/kg	1.9	--	1
Vinyl chloride	ND		ug/kg	0.97	--	1
Chloroethane	ND		ug/kg	1.9	--	1
1,1-Dichloroethene	ND		ug/kg	0.97	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	--	1

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-03
 Client ID: GP-105-6-7
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 23:00
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.9	--	1
p/m-Xylene	2.2		ug/kg	1.9	--	1
o-Xylene	ND		ug/kg	0.97	--	1
Xylenes, Total	2.2		ug/kg	0.97	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	--	1
Dibromomethane	ND		ug/kg	1.9	--	1
1,4-Dichlorobutane	ND		ug/kg	9.7	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	--	1
Styrene	ND		ug/kg	0.97	--	1
Dichlorodifluoromethane	ND		ug/kg	9.7	--	1
Acetone	34		ug/kg	24	--	1
Carbon disulfide	ND		ug/kg	9.7	--	1
2-Butanone	ND		ug/kg	9.7	--	1
Vinyl acetate	ND		ug/kg	9.7	--	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	--	1
2-Hexanone	ND		ug/kg	9.7	--	1
Ethyl methacrylate	ND		ug/kg	9.7	--	1
Acrylonitrile	ND		ug/kg	3.9	--	1
Bromochloromethane	ND		ug/kg	1.9	--	1
Tetrahydrofuran	ND		ug/kg	3.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.9	--	1
1,2-Dibromoethane	ND		ug/kg	0.97	--	1
1,3-Dichloropropane	ND		ug/kg	1.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	--	1
Bromobenzene	ND		ug/kg	1.9	--	1
n-Butylbenzene	2.8		ug/kg	0.97	--	1
sec-Butylbenzene	3.2		ug/kg	0.97	--	1
tert-Butylbenzene	ND		ug/kg	1.9	--	1
o-Chlorotoluene	ND		ug/kg	1.9	--	1
p-Chlorotoluene	ND		ug/kg	1.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	3.9	--	1

Project Name: BIDDEFORD

Lab Number: L2534336

Project Number: 0208555-102

Report Date: 06/16/25

SAMPLE RESULTS

Lab ID: L2534336-03

Date Collected: 06/02/25 23:00

Client ID: GP-105-6-7

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	6.6		ug/kg	0.97	--	1
p-Isopropyltoluene	3.2		ug/kg	0.97	--	1
Naphthalene	4.1		ug/kg	3.9	--	1
n-Propylbenzene	6.8		ug/kg	0.97	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	--	1
1,3,5-Trimethylbenzene	17		ug/kg	1.9	--	1
1,2,4-Trimethylbenzene	19		ug/kg	1.9	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	--	1
Ethyl ether	ND		ug/kg	1.9	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	97		70-130

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-04
 Client ID: GP-106-6-7
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 23:20
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 06/10/25 15:00
 Analyst: JIC
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.6	--	1
Carbon tetrachloride	ND		ug/kg	1.1	--	1
1,2-Dichloropropane	ND		ug/kg	1.1	--	1
Dibromochloromethane	ND		ug/kg	1.1	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.55	--	1
Chlorobenzene	ND		ug/kg	0.55	--	1
Trichlorofluoromethane	ND		ug/kg	4.4	--	1
1,2-Dichloroethane	ND		ug/kg	1.1	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	--	1
Bromodichloromethane	ND		ug/kg	0.55	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	--	1
1,1-Dichloropropene	ND		ug/kg	0.55	--	1
Bromoform	ND		ug/kg	4.4	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	--	1
Benzene	ND		ug/kg	0.55	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	1.1	--	1
Chloromethane	ND		ug/kg	4.4	--	1
Bromomethane	ND		ug/kg	2.2	--	1
Vinyl chloride	ND		ug/kg	1.1	--	1
Chloroethane	ND		ug/kg	2.2	--	1
1,1-Dichloroethene	ND		ug/kg	1.1	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	--	1

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-04
 Client ID: GP-106-6-7
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 23:20
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	--	1
Methyl tert butyl ether	ND		ug/kg	2.2	--	1
p/m-Xylene	ND		ug/kg	2.2	--	1
o-Xylene	ND		ug/kg	1.1	--	1
Xylenes, Total	ND		ug/kg	1.1	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	--	1
Dibromomethane	ND		ug/kg	2.2	--	1
1,4-Dichlorobutane	ND		ug/kg	11	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	--	1
Styrene	ND		ug/kg	1.1	--	1
Dichlorodifluoromethane	ND		ug/kg	11	--	1
Acetone	ND		ug/kg	27	--	1
Carbon disulfide	ND		ug/kg	11	--	1
2-Butanone	ND		ug/kg	11	--	1
Vinyl acetate	ND		ug/kg	11	--	1
4-Methyl-2-pentanone	ND		ug/kg	11	--	1
2-Hexanone	ND		ug/kg	11	--	1
Ethyl methacrylate	ND		ug/kg	11	--	1
Acrylonitrile	ND		ug/kg	4.4	--	1
Bromochloromethane	ND		ug/kg	2.2	--	1
Tetrahydrofuran	ND		ug/kg	4.4	--	1
2,2-Dichloropropane	ND		ug/kg	2.2	--	1
1,2-Dibromoethane	ND		ug/kg	1.1	--	1
1,3-Dichloropropane	ND		ug/kg	2.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	--	1
Bromobenzene	ND		ug/kg	2.2	--	1
n-Butylbenzene	ND		ug/kg	1.1	--	1
sec-Butylbenzene	ND		ug/kg	1.1	--	1
tert-Butylbenzene	ND		ug/kg	2.2	--	1
o-Chlorotoluene	ND		ug/kg	2.2	--	1
p-Chlorotoluene	ND		ug/kg	2.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	--	1
Hexachlorobutadiene	ND		ug/kg	4.4	--	1

Project Name: BIDDEFORD

Lab Number: L2534336

Project Number: 0208555-102

Report Date: 06/16/25

SAMPLE RESULTS

Lab ID: L2534336-04

Date Collected: 06/02/25 23:20

Client ID: GP-106-6-7

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.1	--	1
p-Isopropyltoluene	ND		ug/kg	1.1	--	1
Naphthalene	ND		ug/kg	4.4	--	1
n-Propylbenzene	ND		ug/kg	1.1	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	--	1
Ethyl ether	ND		ug/kg	2.2	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	113		70-130

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-05
 Client ID: GP-107-6.5-7.5
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 23:50
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 06/10/25 15:25
 Analyst: JIC
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	--	1
1,1-Dichloroethane	ND		ug/kg	0.98	--	1
Chloroform	ND		ug/kg	1.5	--	1
Carbon tetrachloride	ND		ug/kg	0.98	--	1
1,2-Dichloropropane	ND		ug/kg	0.98	--	1
Dibromochloromethane	ND		ug/kg	0.98	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	--	1
Tetrachloroethene	ND		ug/kg	0.49	--	1
Chlorobenzene	ND		ug/kg	0.49	--	1
Trichlorofluoromethane	ND		ug/kg	3.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.98	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	--	1
Bromodichloromethane	ND		ug/kg	0.49	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	--	1
1,1-Dichloropropene	ND		ug/kg	0.49	--	1
Bromoform	ND		ug/kg	3.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	--	1
Benzene	3.8		ug/kg	0.49	--	1
Toluene	1.4		ug/kg	0.98	--	1
Ethylbenzene	24		ug/kg	0.98	--	1
Chloromethane	ND		ug/kg	3.9	--	1
Bromomethane	ND		ug/kg	2.0	--	1
Vinyl chloride	ND		ug/kg	0.98	--	1
Chloroethane	ND		ug/kg	2.0	--	1
1,1-Dichloroethene	ND		ug/kg	0.98	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--	1

Project Name: BIDDEFORD

Lab Number: L2534336

Project Number: 0208555-102

Report Date: 06/16/25

SAMPLE RESULTS

Lab ID: L2534336-05
 Client ID: GP-107-6.5-7.5
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 23:50
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	--	1
Methyl tert butyl ether	ND		ug/kg	2.0	--	1
p/m-Xylene	11		ug/kg	2.0	--	1
o-Xylene	ND		ug/kg	0.98	--	1
Xylenes, Total	11		ug/kg	0.98	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	--	1
Dibromomethane	ND		ug/kg	2.0	--	1
1,4-Dichlorobutane	ND		ug/kg	9.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	--	1
Styrene	ND		ug/kg	0.98	--	1
Dichlorodifluoromethane	ND		ug/kg	9.8	--	1
Acetone	ND		ug/kg	24	--	1
Carbon disulfide	ND		ug/kg	9.8	--	1
2-Butanone	ND		ug/kg	9.8	--	1
Vinyl acetate	ND		ug/kg	9.8	--	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	--	1
2-Hexanone	ND		ug/kg	9.8	--	1
Ethyl methacrylate	ND		ug/kg	9.8	--	1
Acrylonitrile	ND		ug/kg	3.9	--	1
Bromochloromethane	ND		ug/kg	2.0	--	1
Tetrahydrofuran	ND		ug/kg	3.9	--	1
2,2-Dichloropropane	ND		ug/kg	2.0	--	1
1,2-Dibromoethane	ND		ug/kg	0.98	--	1
1,3-Dichloropropane	ND		ug/kg	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	--	1
Bromobenzene	ND		ug/kg	2.0	--	1
n-Butylbenzene	1.0		ug/kg	0.98	--	1
sec-Butylbenzene	1.4		ug/kg	0.98	--	1
tert-Butylbenzene	ND		ug/kg	2.0	--	1
o-Chlorotoluene	ND		ug/kg	2.0	--	1
p-Chlorotoluene	ND		ug/kg	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	3.9	--	1

Project Name: BIDDEFORD

Lab Number: L2534336

Project Number: 0208555-102

Report Date: 06/16/25

SAMPLE RESULTS

Lab ID: L2534336-05
 Client ID: GP-107-6.5-7.5
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 23:50
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	4.7		ug/kg	0.98	--	1
p-Isopropyltoluene	1.2		ug/kg	0.98	--	1
Naphthalene	9.3		ug/kg	3.9	--	1
n-Propylbenzene	8.3		ug/kg	0.98	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	--	1
Ethyl ether	ND		ug/kg	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	99		70-130

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/10/25 09:08
 Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04-05 Batch: WG2077589-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/10/25 09:08
 Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04-05 Batch: WG2077589-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	10	--
2-Butanone	ND		ug/kg	10	--
Vinyl acetate	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/10/25 09:08
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04-05 Batch: WG2077589-5					
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Ethyl ether	ND		ug/kg	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	103		70-130

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/10/25 09:08
 Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG2077590-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/10/25 09:08
 Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG2077590-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,4-Dichlorobutane	ND		ug/kg	500	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
2-Butanone	ND		ug/kg	500	--
Vinyl acetate	ND		ug/kg	500	--
4-Methyl-2-pentanone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Ethyl methacrylate	ND		ug/kg	500	--
Acrylonitrile	ND		ug/kg	200	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/10/25 09:08
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02 Batch: WG2077590-5					
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	--
Ethyl ether	ND		ug/kg	100	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	82		70-130
Dibromofluoromethane	102		70-130

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/12/25 08:42
 Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG2078546-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/12/25 08:42
 Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG2078546-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	10	--
2-Butanone	ND		ug/kg	10	--
Vinyl acetate	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/12/25 08:42
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG2078546-5					
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Ethyl ether	ND		ug/kg	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	111		70-130

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/13/25 09:10
 Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG2078883-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 06/13/25 09:10
 Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG2078883-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,4-Dichlorobutane	ND		ug/kg	10	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	10	--
2-Butanone	ND		ug/kg	10	--
Vinyl acetate	ND		ug/kg	10	--
4-Methyl-2-pentanone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Ethyl methacrylate	ND		ug/kg	10	--
Acrylonitrile	ND		ug/kg	4.0	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/13/25 09:10
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG2078883-5					
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	--
Ethyl ether	ND		ug/kg	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis
Batch Quality Control**Project Name:** BIDDEFORD
Project Number: 0208555-102**Lab Number:** L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04-05 Batch: WG2077589-3 WG2077589-4								
Methylene chloride	92		86		70-130	7		30
1,1-Dichloroethane	96		88		70-130	9		30
Chloroform	102		96		70-130	6		30
Carbon tetrachloride	119		113		70-130	5		30
1,2-Dichloropropane	90		84		70-130	7		30
Dibromochloromethane	109		108		70-130	1		30
1,1,2-Trichloroethane	89		85		70-130	5		30
Tetrachloroethene	120		113		70-130	6		30
Chlorobenzene	101		96		70-130	5		30
Trichlorofluoromethane	114		105		70-139	8		30
1,2-Dichloroethane	98		94		70-130	4		30
1,1,1-Trichloroethane	114		108		70-130	5		30
Bromodichloromethane	104		101		70-130	3		30
trans-1,3-Dichloropropene	93		86		70-130	8		30
cis-1,3-Dichloropropene	98		95		70-130	3		30
1,1-Dichloropropene	104		96		70-130	8		30
Bromoform	97		95		70-130	2		30
1,1,2,2-Tetrachloroethane	77		73		70-130	5		30
Benzene	97		91		70-130	6		30
Toluene	92		85		70-130	8		30
Ethylbenzene	97		90		70-130	7		30
Chloromethane	93		81		52-130	14		30
Bromomethane	100		96		57-147	4		30

Lab Control Sample Analysis Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04-05 Batch: WG2077589-3 WG2077589-4								
Vinyl chloride	88		80		67-130	10		30
Chloroethane	96		84		50-151	13		30
1,1-Dichloroethene	102		94		65-135	8		30
trans-1,2-Dichloroethene	104		96		70-130	8		30
Trichloroethene	112		106		70-130	6		30
1,2-Dichlorobenzene	104		99		70-130	5		30
1,3-Dichlorobenzene	106		100		70-130	6		30
1,4-Dichlorobenzene	102		97		70-130	5		30
Methyl tert butyl ether	89		86		66-130	3		30
p/m-Xylene	105		98		70-130	7		30
o-Xylene	104		97		70-130	7		30
cis-1,2-Dichloroethene	102		96		70-130	6		30
Dibromomethane	104		100		70-130	4		30
1,4-Dichlorobutane	73		69	Q	70-130	6		30
1,2,3-Trichloropropane	78		74		68-130	5		30
Styrene	102		96		70-130	6		30
Dichlorodifluoromethane	104		96		30-146	8		30
Acetone	102		89		54-140	14		30
Carbon disulfide	86		79		59-130	8		30
2-Butanone	73		62	Q	70-130	16		30
Vinyl acetate	81		74		70-130	9		30
4-Methyl-2-pentanone	63	Q	60	Q	70-130	5		30
2-Hexanone	74		58	Q	70-130	24		30

Lab Control Sample Analysis Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04-05 Batch: WG2077589-3 WG2077589-4								
Ethyl methacrylate	76		73		70-130	4		30
Acrylonitrile	76		60	Q	70-130	24		30
Bromochloromethane	117		113		70-130	3		30
Tetrahydrofuran	68		72		66-130	6		30
2,2-Dichloropropane	107		99		70-130	8		30
1,2-Dibromoethane	89		84		70-130	6		30
1,3-Dichloropropane	88		83		69-130	6		30
1,1,1,2-Tetrachloroethane	112		109		70-130	3		30
Bromobenzene	100		96		70-130	4		30
n-Butylbenzene	98		89		70-130	10		30
sec-Butylbenzene	96		90		70-130	6		30
tert-Butylbenzene	100		93		70-130	7		30
o-Chlorotoluene	91		83		70-130	9		30
p-Chlorotoluene	91		84		70-130	8		30
1,2-Dibromo-3-chloropropane	87		90		68-130	3		30
Hexachlorobutadiene	111		105		67-130	6		30
Isopropylbenzene	95		87		70-130	9		30
p-Isopropyltoluene	103		96		70-130	7		30
Naphthalene	85		83		70-130	2		30
n-Propylbenzene	92		84		70-130	9		30
1,2,3-Trichlorobenzene	96		93		70-130	3		30
1,2,4-Trichlorobenzene	105		99		70-130	6		30
1,3,5-Trimethylbenzene	96		89		70-130	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04-05 Batch: WG2077589-3 WG2077589-4								
1,2,4-Trimethylbenzene	97		90		70-130	7		30
trans-1,4-Dichloro-2-butene	76		75		70-130	1		30
Ethyl ether	92		87		67-130	6		30

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
1,2-Dichloroethane-d4	101		97		70-130	
Toluene-d8	94		92		70-130	
4-Bromofluorobenzene	84		83		70-130	
Dibromofluoromethane	107		107		70-130	



Lab Control Sample Analysis

Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG2077590-3 WG2077590-4								
Methylene chloride	92		86		70-130	7		30
1,1-Dichloroethane	96		88		70-130	9		30
Chloroform	102		96		70-130	6		30
Carbon tetrachloride	119		113		70-130	5		30
1,2-Dichloropropane	90		84		70-130	7		30
Dibromochloromethane	109		108		70-130	1		30
1,1,2-Trichloroethane	89		85		70-130	5		30
Tetrachloroethene	120		113		70-130	6		30
Chlorobenzene	101		96		70-130	5		30
Trichlorofluoromethane	114		105		70-139	8		30
1,2-Dichloroethane	98		94		70-130	4		30
1,1,1-Trichloroethane	114		108		70-130	5		30
Bromodichloromethane	104		101		70-130	3		30
trans-1,3-Dichloropropene	93		86		70-130	8		30
cis-1,3-Dichloropropene	98		95		70-130	3		30
1,1-Dichloropropene	104		96		70-130	8		30
Bromoform	97		95		70-130	2		30
1,1,2,2-Tetrachloroethane	77		73		70-130	5		30
Benzene	97		91		70-130	6		30
Toluene	92		85		70-130	8		30
Ethylbenzene	97		90		70-130	7		30
Chloromethane	93		81		52-130	14		30
Bromomethane	100		96		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG2077590-3 WG2077590-4								
Vinyl chloride	88		80		67-130	10		30
Chloroethane	96		84		50-151	13		30
1,1-Dichloroethene	102		94		65-135	8		30
trans-1,2-Dichloroethene	104		96		70-130	8		30
Trichloroethene	112		106		70-130	6		30
1,2-Dichlorobenzene	104		99		70-130	5		30
1,3-Dichlorobenzene	106		100		70-130	6		30
1,4-Dichlorobenzene	102		97		70-130	5		30
Methyl tert butyl ether	89		86		66-130	3		30
p/m-Xylene	105		98		70-130	7		30
o-Xylene	104		97		70-130	7		30
cis-1,2-Dichloroethene	102		96		70-130	6		30
Dibromomethane	104		100		70-130	4		30
1,4-Dichlorobutane	73		69	Q	70-130	6		30
1,2,3-Trichloropropane	78		74		68-130	5		30
Styrene	102		96		70-130	6		30
Dichlorodifluoromethane	104		96		30-146	8		30
Acetone	102		89		54-140	14		30
Carbon disulfide	86		79		59-130	8		30
2-Butanone	73		62	Q	70-130	16		30
Vinyl acetate	81		74		70-130	9		30
4-Methyl-2-pentanone	63	Q	60	Q	70-130	5		30
2-Hexanone	74		58	Q	70-130	24		30

Lab Control Sample Analysis Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG2077590-3 WG2077590-4								
Ethyl methacrylate	76		73		70-130		4	30
Acrylonitrile	76		60	Q	70-130		24	30
Bromochloromethane	117		113		70-130		3	30
Tetrahydrofuran	68		72		66-130		6	30
2,2-Dichloropropane	107		99		70-130		8	30
1,2-Dibromoethane	89		84		70-130		6	30
1,3-Dichloropropane	88		83		69-130		6	30
1,1,1,2-Tetrachloroethane	112		109		70-130		3	30
Bromobenzene	100		96		70-130		4	30
n-Butylbenzene	98		89		70-130		10	30
sec-Butylbenzene	96		90		70-130		6	30
tert-Butylbenzene	100		93		70-130		7	30
o-Chlorotoluene	91		83		70-130		9	30
p-Chlorotoluene	91		84		70-130		8	30
1,2-Dibromo-3-chloropropane	87		90		68-130		3	30
Hexachlorobutadiene	111		105		67-130		6	30
Isopropylbenzene	95		87		70-130		9	30
p-Isopropyltoluene	103		96		70-130		7	30
Naphthalene	85		83		70-130		2	30
n-Propylbenzene	92		84		70-130		9	30
1,2,3-Trichlorobenzene	96		93		70-130		3	30
1,2,4-Trichlorobenzene	105		99		70-130		6	30
1,3,5-Trimethylbenzene	96		89		70-130		8	30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02 Batch: WG2077590-3 WG2077590-4								
1,2,4-Trimethylbenzene	97		90		70-130	7		30
trans-1,4-Dichloro-2-butene	76		75		70-130	1		30
Ethyl ether	92		87		67-130	6		30

Surrogate	LCS		LCSD		Acceptance Criteria	
	%Recovery	Qual	%Recovery	Qual		
1,2-Dichloroethane-d4	101		98		70-130	
Toluene-d8	94		92		70-130	
4-Bromofluorobenzene	84		83		70-130	
Dibromofluoromethane	107		107		70-130	



Lab Control Sample Analysis
Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
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Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG2078546-3 WG2078546-4								
Methylene chloride	89		86		70-130		3	30
1,1-Dichloroethane	96		91		70-130		5	30
Chloroform	92		88		70-130		4	30
Carbon tetrachloride	108		102		70-130		6	30
1,2-Dichloropropane	102		100		70-130		2	30
Dibromochloromethane	91		93		70-130		2	30
1,1,2-Trichloroethane	85		86		70-130		1	30
Tetrachloroethene	114		109		70-130		4	30
Chlorobenzene	99		95		70-130		4	30
Trichlorofluoromethane	111		104		70-139		7	30
1,2-Dichloroethane	101		99		70-130		2	30
1,1,1-Trichloroethane	101		97		70-130		4	30
Bromodichloromethane	89		86		70-130		3	30
trans-1,3-Dichloropropene	82		84		70-130		2	30
cis-1,3-Dichloropropene	90		88		70-130		2	30
1,1-Dichloropropene	100		93		70-130		7	30
Bromoform	84		86		70-130		2	30
1,1,2,2-Tetrachloroethane	75		78		70-130		4	30
Benzene	100		96		70-130		4	30
Toluene	94		91		70-130		3	30
Ethylbenzene	94		91		70-130		3	30
Chloromethane	147	Q	134	Q	52-130		9	30
Bromomethane	98		91		57-147		7	30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG2078546-3 WG2078546-4								
Vinyl chloride	112		104		67-130	7		30
Chloroethane	95		91		50-151	4		30
1,1-Dichloroethene	96		92		65-135	4		30
trans-1,2-Dichloroethene	98		93		70-130	5		30
Trichloroethene	104		98		70-130	6		30
1,2-Dichlorobenzene	97		95		70-130	2		30
1,3-Dichlorobenzene	104		99		70-130	5		30
1,4-Dichlorobenzene	100		96		70-130	4		30
Methyl tert butyl ether	78		79		66-130	1		30
p/m-Xylene	101		98		70-130	3		30
o-Xylene	95		92		70-130	3		30
cis-1,2-Dichloroethene	84		81		70-130	4		30
Dibromomethane	85		87		70-130	2		30
1,4-Dichlorobutane	106		108		70-130	2		30
1,2,3-Trichloropropane	85		88		68-130	3		30
Styrene	94		91		70-130	3		30
Dichlorodifluoromethane	89		82		30-146	8		30
Acetone	142	Q	156	Q	54-140	9		30
Carbon disulfide	96		90		59-130	6		30
2-Butanone	107		116		70-130	8		30
Vinyl acetate	87		94		70-130	8		30
4-Methyl-2-pentanone	65	Q	74		70-130	13		30
2-Hexanone	67	Q	80		70-130	18		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG2078546-3 WG2078546-4								
Ethyl methacrylate	64	Q	68	Q	70-130	6		30
Acrylonitrile	95		102		70-130	7		30
Bromochloromethane	89		89		70-130	0		30
Tetrahydrofuran	100		118		66-130	17		30
2,2-Dichloropropane	92		89		70-130	3		30
1,2-Dibromoethane	86		91		70-130	6		30
1,3-Dichloropropane	88		91		69-130	3		30
1,1,1,2-Tetrachloroethane	99		99		70-130	0		30
Bromobenzene	94		91		70-130	3		30
n-Butylbenzene	110		101		70-130	9		30
sec-Butylbenzene	108		100		70-130	8		30
tert-Butylbenzene	103		97		70-130	6		30
o-Chlorotoluene	114		107		70-130	6		30
p-Chlorotoluene	97		92		70-130	5		30
1,2-Dibromo-3-chloropropane	68		76		68-130	11		30
Hexachlorobutadiene	107		104		67-130	3		30
Isopropylbenzene	101		95		70-130	6		30
p-Isopropyltoluene	106		100		70-130	6		30
Naphthalene	74		79		70-130	7		30
n-Propylbenzene	101		96		70-130	5		30
1,2,3-Trichlorobenzene	95		93		70-130	2		30
1,2,4-Trichlorobenzene	98		95		70-130	3		30
1,3,5-Trimethylbenzene	103		96		70-130	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG2078546-3 WG2078546-4								
1,2,4-Trimethylbenzene	99		94		70-130		5	30
trans-1,4-Dichloro-2-butene	91		90		70-130		1	30
Ethyl ether	89		88		67-130		1	30

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
1,2-Dichloroethane-d4	100		105		70-130	
Toluene-d8	96		98		70-130	
4-Bromofluorobenzene	88		87		70-130	
Dibromofluoromethane	103		102		70-130	



Lab Control Sample Analysis

Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	Limits	RPD
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG2078883-3 WG2078883-4								
Methylene chloride	90		85		70-130	6		30
1,1-Dichloroethane	87		82		70-130	6		30
Chloroform	95		91		70-130	4		30
Carbon tetrachloride	110		105		70-130	5		30
1,2-Dichloropropane	82		79		70-130	4		30
Dibromochloromethane	111		111		70-130	0		30
1,1,2-Trichloroethane	90		85		70-130	6		30
Tetrachloroethene	113		108		70-130	5		30
Chlorobenzene	95		93		70-130	2		30
Trichlorofluoromethane	103		94		70-139	9		30
1,2-Dichloroethane	91		88		70-130	3		30
1,1,1-Trichloroethane	104		99		70-130	5		30
Bromodichloromethane	98		95		70-130	3		30
trans-1,3-Dichloropropene	89		84		70-130	6		30
cis-1,3-Dichloropropene	91		89		70-130	2		30
1,1-Dichloropropene	92		89		70-130	3		30
Bromoform	104		101		70-130	3		30
1,1,2,2-Tetrachloroethane	81		80		70-130	1		30
Benzene	87		82		70-130	6		30
Toluene	84		82		70-130	2		30
Ethylbenzene	89		86		70-130	3		30
Chloromethane	81		74		52-130	9		30
Bromomethane	110		108		57-147	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual	RPD	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG2078883-3 WG2078883-4								
Vinyl chloride	88		81		67-130		8	30
Chloroethane	102		79		50-151		25	30
1,1-Dichloroethene	91		89		65-135		2	30
trans-1,2-Dichloroethene	95		88		70-130		8	30
Trichloroethene	98		94		70-130		4	30
1,2-Dichlorobenzene	101		98		70-130		3	30
1,3-Dichlorobenzene	102		99		70-130		3	30
1,4-Dichlorobenzene	98		96		70-130		2	30
Methyl tert butyl ether	87		83		66-130		5	30
p/m-Xylene	97		93		70-130		4	30
o-Xylene	96		92		70-130		4	30
cis-1,2-Dichloroethene	94		89		70-130		5	30
Dibromomethane	99		97		70-130		2	30
1,4-Dichlorobutane	74		71		70-130		4	30
1,2,3-Trichloropropane	80		77		68-130		4	30
Styrene	93		91		70-130		2	30
Dichlorodifluoromethane	90		84		30-146		7	30
Acetone	108		99		54-140		9	30
Carbon disulfide	77		74		59-130		4	30
2-Butanone	70		64		70-130	Q	9	30
Vinyl acetate	81		74		70-130		9	30
4-Methyl-2-pentanone	69	Q	64		70-130	Q	8	30
2-Hexanone	69	Q	57		70-130	Q	19	30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG2078883-3 WG2078883-4								
Ethyl methacrylate	75		75		70-130	0		30
Acrylonitrile	75		60	Q	70-130	22		30
Bromochloromethane	112		108		70-130	4		30
Tetrahydrofuran	90		84		66-130	7		30
2,2-Dichloropropane	93		89		70-130	4		30
1,2-Dibromoethane	89		85		70-130	5		30
1,3-Dichloropropane	87		84		69-130	4		30
1,1,1,2-Tetrachloroethane	108		107		70-130	1		30
Bromobenzene	99		97		70-130	2		30
n-Butylbenzene	89		85		70-130	5		30
sec-Butylbenzene	89		86		70-130	3		30
tert-Butylbenzene	93		90		70-130	3		30
o-Chlorotoluene	84		81		70-130	4		30
p-Chlorotoluene	84		81		70-130	4		30
1,2-Dibromo-3-chloropropane	94		88		68-130	7		30
Hexachlorobutadiene	109		107		67-130	2		30
Isopropylbenzene	89		86		70-130	3		30
p-Isopropyltoluene	95		92		70-130	3		30
Naphthalene	86		85		70-130	1		30
n-Propylbenzene	86		82		70-130	5		30
1,2,3-Trichlorobenzene	98		98		70-130	0		30
1,2,4-Trichlorobenzene	104		103		70-130	1		30
1,3,5-Trimethylbenzene	89		86		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG2078883-3 WG2078883-4								
1,2,4-Trimethylbenzene	90		87		70-130		3	30
trans-1,4-Dichloro-2-butene	80		73		70-130		9	30
Ethyl ether	89		85		67-130		5	30

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	Criteria	
1,2-Dichloroethane-d4	99		99		70-130	
Toluene-d8	95		95		70-130	
4-Bromofluorobenzene	82		84		70-130	
Dibromofluoromethane	106		106		70-130	



PETROLEUM HYDROCARBONS

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-01

Date Collected: 06/02/25 21:40

Client ID: GP-102-6-8

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 06/10/25 22:20

Analyst: BAD

Percent Solids: 81%

Trap: EST, Carboxen B/Carboxen 1000&1001

Analytical Column: Restek, RTX-502.2,
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics	10.2		mg/kg	6.54	--	1
C9-C12 Aliphatics	69.5		mg/kg	6.54	--	1
C9-C10 Aromatics	38.3		mg/kg	6.54	--	1
C5-C8 Aliphatics, Adjusted	10.2		mg/kg	6.54	--	1
C9-C12 Aliphatics, Adjusted	30.8		mg/kg	6.54	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	146	Q	70-130
2,5-Dibromotoluene-FID	148	Q	70-130

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-01

Date Collected: 06/02/25 21:40

Client ID: GP-102-6-8

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 135,EPH-19-2.1

Extraction Date: 06/04/25 09:48

Analytical Date: 06/06/25 11:46

Cleanup Method1: EPH-19-2.1

Analyst: MTC

Cleanup Date1: 06/05/25

Percent Solids: 81%

Quality Control Information

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	25.4		mg/kg	7.88	--	1
C19-C36 Aliphatics	ND		mg/kg	7.88	--	1
C11-C22 Aromatics	ND		mg/kg	7.88	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.88	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	48		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	71		40-140
2-Bromonaphthalene	72		40-140

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-02
 Client ID: GP-104-7-7.5
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 22:40
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 131, VPH-18-2.1
 Analytical Date: 06/10/25 22:50
 Analyst: BAD
 Percent Solids: 91%

Trap: EST, Carboxen B/Carboxen 1000&1001**Analytical Column:** Restek, RTX-502.2, 105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1.4

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	110		mg/kg	4.53	--	1
C9-C12 Aliphatics	330		mg/kg	4.53	--	1
C9-C10 Aromatics	138		mg/kg	4.53	--	1
C5-C8 Aliphatics, Adjusted	110		mg/kg	4.53	--	1
C9-C12 Aliphatics, Adjusted	190		mg/kg	4.53	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	125		70-130
2,5-Dibromotoluene-FID	123		70-130

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-02
 Client ID: GP-104-7-7.5
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 22:40
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 06/06/25 12:12
 Analyst: MTC
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/04/25 09:48
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 06/05/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	109		mg/kg	7.16	--	1
C19-C36 Aliphatics	ND		mg/kg	7.16	--	1
C11-C22 Aromatics	9.58		mg/kg	7.16	--	1
C11-C22 Aromatics, Adjusted	9.58		mg/kg	7.16	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	49		40-140
o-Terphenyl	69		40-140
2-Fluorobiphenyl	80		40-140
2-Bromonaphthalene	82		40-140

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-03

Date Collected: 06/02/25 23:00

Client ID: GP-105-6-7

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 131, VPH-18-2.1

Analytical Date: 06/10/25 23:20

Analyst: BAD

Percent Solids: 87%

Trap: EST, Carboxen B/Carboxen 1000&1001

Analytical Column: Restek, RTX-502.2,
105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Were samples received in methanol?

Yes (Covering the Soil)

Methanol ratio:

1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics	99.7		mg/kg	5.51	--	1
C9-C12 Aliphatics	100		mg/kg	5.51	--	1
C9-C10 Aromatics	40.1		mg/kg	5.51	--	1
C5-C8 Aliphatics, Adjusted	99.6		mg/kg	5.51	--	1
C9-C12 Aliphatics, Adjusted	59.2		mg/kg	5.51	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	122		70-130
2,5-Dibromotoluene-FID	123		70-130

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-03

Client ID: GP-105-6-7

Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 23:00

Date Received: 06/03/25

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 135,EPH-19-2.1

Analytical Date: 06/06/25 12:37

Analyst: MTC

Percent Solids: 87%

Extraction Method: EPA 3546

Extraction Date: 06/04/25 09:48

Cleanup Method1: EPH-19-2.1

Cleanup Date1: 06/05/25

Quality Control Information

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	20.5		mg/kg	7.35	--	1
C19-C36 Aliphatics	ND		mg/kg	7.35	--	1
C11-C22 Aromatics	ND		mg/kg	7.35	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	7.35	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	48		40-140
o-Terphenyl	66		40-140
2-Fluorobiphenyl	72		40-140
2-Bromonaphthalene	73		40-140

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-04
 Client ID: GP-106-6-7
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 23:20
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 131, VPH-18-2.1
 Analytical Date: 06/10/25 23:49
 Analyst: BAD
 Percent Solids: 79%

Trap: EST, Carboxen B/Carboxen 1000&1001**Analytical Column:** Restek, RTX-502.2, 105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1 +/- 25%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		mg/kg	6.64	--	1
C9-C12 Aliphatics	28.2		mg/kg	6.64	--	1
C9-C10 Aromatics	13.6		mg/kg	6.64	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	6.64	--	1
C9-C12 Aliphatics, Adjusted	13.8		mg/kg	6.64	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	129		70-130
2,5-Dibromotoluene-FID	133	Q	70-130

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-04

Date Collected: 06/02/25 23:20

Client ID: GP-106-6-7

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 135,EPH-19-2.1

Extraction Date: 06/04/25 09:48

Analytical Date: 06/06/25 13:03

Cleanup Method1: EPH-19-2.1

Analyst: MTC

Cleanup Date1: 06/05/25

Percent Solids: 79%

Quality Control Information

Condition of sample received:

Satisfactory

Sample Temperature upon receipt:

Received on Ice

Sample Extraction method:

Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	15.2		mg/kg	8.03	--	1
C19-C36 Aliphatics	ND		mg/kg	8.03	--	1
C11-C22 Aromatics	ND		mg/kg	8.03	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	8.03	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	50		40-140
o-Terphenyl	71		40-140
2-Fluorobiphenyl	78		40-140
2-Bromonaphthalene	80		40-140

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-05
 Client ID: GP-107-6.5-7.5
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 23:50
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 131, VPH-18-2.1
 Analytical Date: 06/11/25 00:19
 Analyst: BAD
 Percent Solids: 83%

Trap: EST, Carboxen B/Carboxen 1000&1001**Analytical Column:** Restek, RTX-502.2, 105m, 0.53ID, 3um**Quality Control Information**

Condition of sample received:	Satisfactory
Sample Temperature upon receipt:	Received on Ice
Were samples received in methanol?	Yes (Covering the Soil)
Methanol ratio:	1:1.5

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Petroleum Hydrocarbons - Westborough Lab

C5-C8 Aliphatics	ND		mg/kg	5.16	--	1
C9-C12 Aliphatics	ND		mg/kg	5.16	--	1
C9-C10 Aromatics	ND		mg/kg	5.16	--	1
C5-C8 Aliphatics, Adjusted	ND		mg/kg	5.16	--	1
C9-C12 Aliphatics, Adjusted	ND		mg/kg	5.16	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	145	Q	70-130
2,5-Dibromotoluene-FID	146	Q	70-130

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-05
 Client ID: GP-107-6.5-7.5
 Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 23:50
 Date Received: 06/03/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Analytical Method: 135,EPH-19-2.1
 Analytical Date: 06/06/25 13:29
 Analyst: MTC
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 06/04/25 09:48
 Cleanup Method1: EPH-19-2.1
 Cleanup Date1: 06/05/25

Quality Control Information

Condition of sample received: Satisfactory
 Sample Temperature upon receipt: Received on Ice
 Sample Extraction method: Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Extractable Petroleum Hydrocarbons - Westborough Lab

C9-C18 Aliphatics	ND		mg/kg	8.00	--	1
C19-C36 Aliphatics	ND		mg/kg	8.00	--	1
C11-C22 Aromatics	ND		mg/kg	8.00	--	1
C11-C22 Aromatics, Adjusted	ND		mg/kg	8.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	52		40-140
o-Terphenyl	64		40-140
2-Fluorobiphenyl	73		40-140
2-Bromonaphthalene	74		40-140

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 135,EPH-19-2.1
Analytical Date: 06/04/25 11:15
Analyst: MTC

Extraction Method: EPA 3546
Extraction Date: 06/03/25 10:42
Cleanup Method: EPH-19-2.1
Cleanup Date: 06/04/25

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-05 Batch: WG2074319-1					
C9-C18 Aliphatics	ND		mg/kg	6.47	--
C19-C36 Aliphatics	ND		mg/kg	6.47	--
C11-C22 Aromatics	ND		mg/kg	6.47	--
C11-C22 Aromatics, Adjusted	ND		mg/kg	6.47	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	46		40-140
o-Terphenyl	50		40-140
2-Fluorobiphenyl	75		40-140
2-Bromonaphthalene	76		40-140

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 131, VPH-18-2.1
 Analytical Date: 06/10/25 16:53
 Analyst: BAD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-05 Batch: WG2077564-4					
C5-C8 Aliphatics	ND		mg/kg	5.00	--
C9-C12 Aliphatics	ND		mg/kg	5.00	--
C9-C10 Aromatics	ND		mg/kg	5.00	--
C5-C8 Aliphatics, Adjusted	ND		mg/kg	5.00	--
C9-C12 Aliphatics, Adjusted	ND		mg/kg	5.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	100		70-130
2,5-Dibromotoluene-FID	100		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-05 Batch: WG2074319-2 WG2074319-3								
C9-C18 Aliphatics	55		56		40-140	2		25
C19-C36 Aliphatics	73		73		40-140	0		25
C11-C22 Aromatics	72		69		40-140	4		25
Naphthalene	62		58		40-140	7		25
2-Methylnaphthalene	65		61		40-140	6		25
Acenaphthylene	64		61		40-140	5		25
Acenaphthene	67		64		40-140	5		25
Fluorene	69		66		40-140	4		25
Phenanthrene	70		66		40-140	6		25
Anthracene	87		83		40-140	5		25
Fluoranthene	72		69		40-140	4		25
Pyrene	70		67		40-140	4		25
Benzo(a)anthracene	73		69		40-140	6		25
Chrysene	69		66		40-140	4		25
Benzo(b)fluoranthene	69		65		40-140	6		25
Benzo(k)fluoranthene	69		65		40-140	6		25
Benzo(a)pyrene	83		78		40-140	6		25
Indeno(1,2,3-cd)Pyrene	69		66		40-140	4		25
Dibenzo(a,h)anthracene	68		64		40-140	6		25
Benzo(ghi)perylene	63		60		40-140	5		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits		Qual	Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-05 Batch: WG2074319-2 WG2074319-3								
Surrogate	LCS		LCSD		Acceptance			
	%Recovery	Qual	%Recovery	Qual				
Chloro-Octadecane	59		58					40-140
o-Terphenyl	68		64					40-140
2-Fluorobiphenyl	80		73					40-140
2-Bromonaphthalene	81		74					40-140
% Naphthalene Breakthrough	0		0					
% 2-Methylnaphthalene Breakthrough	0		0					



Lab Control Sample Analysis Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-05 Batch: WG2077564-2 WG2077564-3								
C5-C8 Aliphatics	86		74		70-130	15		25
C9-C12 Aliphatics	104		93		70-130	11		25
C9-C10 Aromatics	104		96		70-130	8		25
Benzene	98		90		70-130	9		25
Toluene	99		91		70-130	8		25
Ethylbenzene	103		94		70-130	9		25
p/m-Xylene	103		95		70-130	8		25
o-Xylene	101		94		70-130	7		25
Methyl tert butyl ether	96		95		70-130	1		25
Naphthalene	102		102		70-130	0		25
1,2,4-Trimethylbenzene	104		96		70-130	8		25
Pentane	72		62	Q	70-130	15		25
2-Methylpentane	88		76		70-130	15		25
2,2,4-Trimethylpentane	95		82		70-130	14		25
n-Nonane	96		86		30-130	12		25
n-Decane	117		105		70-130	11		25
n-Butylcyclohexane	100		90		70-130	11		25

Surrogate	LCS		LCSD		Acceptance Criteria	
	%Recovery	Qual	%Recovery	Qual		
2,5-Dibromotoluene-PID	107		108		70-130	
2,5-Dibromotoluene-FID	105		107		70-130	



METALS

Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-01

Date Collected: 06/02/25 21:40

Client ID: GP-102-6-8

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		mg/kg	9.46	--	4	06/10/25 23:52	06/12/25 12:27	EPA 3050B	1,6010D	DHL



Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-02

Date Collected: 06/02/25 22:40

Client ID: GP-104-7-7.5

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Mansfield Lab

Lead, Total	8.21		mg/kg	4.16	--	2	06/10/25 23:52	06/11/25 23:53	EPA 3050B	1,6010D	DHL
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Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-03

Date Collected: 06/02/25 23:00

Client ID: GP-105-6-7

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	16.1		mg/kg	4.41	--	2	06/10/25 23:52	06/11/25 23:59	EPA 3050B	1,6010D	DHL



Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-04

Date Collected: 06/02/25 23:20

Client ID: GP-106-6-7

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	10.3		mg/kg	4.80	--	2	06/10/25 23:52	06/12/25 00:06	EPA 3050B	1,6010D	DHL



Project Name: BIDDEFORD**Lab Number:** L2534336**Project Number:** 0208555-102**Report Date:** 06/16/25**SAMPLE RESULTS**

Lab ID: L2534336-05

Date Collected: 06/02/25 23:50

Client ID: GP-107-6.5-7.5

Date Received: 06/03/25

Sample Location: BIDDEFORD, ME

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	9.07		mg/kg	4.59	--	2	06/10/25 23:52	06/12/25 00:13	EPA 3050B	1,6010D	DHL



Project Name: BIDDEFORD

Lab Number: L2534336

Project Number: 0208555-102

Report Date: 06/16/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG2077269-1										
Lead, Total	ND		mg/kg	2.00	--	1	06/10/25 23:52	06/11/25 21:05	1,6010D	DHL

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis
Batch Quality Control

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG2077269-2								
Lead, Total	105		-		80-120	-		



INORGANICS & MISCELLANEOUS

Project Name: BIDDEFORD

Project Number: 0208555-102

Lab Number: L2534336

Report Date: 06/16/25

SAMPLE RESULTS

Lab ID: L2534336-01

Client ID: GP-102-6-8

Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 21:40

Date Received: 06/03/25

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	06/05/25 12:52	121,2540G	RJF



Project Name: BIDDEFORD**Project Number:** 0208555-102**Lab Number:** L2534336**Report Date:** 06/16/25**SAMPLE RESULTS****Lab ID:** L2534336-02**Client ID:** GP-104-7-7.5**Sample Location:** BIDDEFORD, ME**Date Collected:** 06/02/25 22:40**Date Received:** 06/03/25**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	06/05/25 12:52	121,2540G	RJF



Project Name: BIDDEFORD

Project Number: 0208555-102

Lab Number: L2534336

Report Date: 06/16/25

SAMPLE RESULTS

Lab ID: L2534336-03

Client ID: GP-105-6-7

Sample Location: BIDDEFORD, ME

Date Collected: 06/02/25 23:00

Date Received: 06/03/25

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	06/05/25 12:52	121,2540G	RJF



Project Name: BIDDEFORD**Project Number:** 0208555-102**Lab Number:** L2534336**Report Date:** 06/16/25**SAMPLE RESULTS****Lab ID:** L2534336-04**Client ID:** GP-106-6-7**Sample Location:** BIDDEFORD, ME**Date Collected:** 06/02/25 23:20**Date Received:** 06/03/25**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.4		%	0.100	NA	1	-	06/05/25 12:52	121,2540G	RJF



Project Name: BIDDEFORD**Project Number:** 0208555-102**Lab Number:** L2534336**Report Date:** 06/16/25**SAMPLE RESULTS****Lab ID:** L2534336-05**Client ID:** GP-107-6.5-7.5**Sample Location:** BIDDEFORD, ME**Date Collected:** 06/02/25 23:50**Date Received:** 06/03/25**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	06/05/25 12:52	121,2540G	RJF



Project Name: BIDDEFORD

Lab Number: L2534336

Project Number: 0208555-102

Report Date: 06/16/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG2075361-2										
Solids, Total	100		%	0.100	NA	1	-	06/05/25 12:52	121,2540G	RJF



Project Name: BIDDEFORD
Project Number: 0208555-102

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information
Cooler A
Custody Seal Absent

Container Information			Initial		Final		Temp		Frozen		Analysis(*)
Container ID	Container Type	Cooler	pH	pH	deg C	Pres	Seal	Date/Time			
L2534336-01A	Vial MeOH preserved	A	NA	NA	4.7	Y	Absent		8260HLW(14),VPH-18(28)		
L2534336-01B	Vial water preserved	A	NA	NA	4.7	Y	Absent	03-JUN-25 21:58	8260HLW(14)		
L2534336-01C	Vial water preserved	A	NA	NA	4.7	Y	Absent	03-JUN-25 21:58	8260HLW(14)		
L2534336-01D	Plastic 2oz unpreserved for TS	A	NA	NA	4.7	Y	Absent		ME-TS-2540(7)		
L2534336-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA	NA	4.7	Y	Absent		PB-Ti(180)		
L2534336-01F	Glass 60mL/2oz unpreserved	A	NA	NA	4.7	Y	Absent		EPH-20(14)		
L2534336-02A	Vial MeOH preserved	A	NA	NA	4.7	Y	Absent		8260HLW(14),VPH-18(28)		
L2534336-02B	Vial water preserved	A	NA	NA	4.7	Y	Absent	03-JUN-25 21:58	8260HLW(14)		
L2534336-02C	Vial water preserved	A	NA	NA	4.7	Y	Absent	03-JUN-25 21:58	8260HLW(14)		
L2534336-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA	NA	4.7	Y	Absent		PB-Ti(180)		
L2534336-02E	Glass 60mL/2oz unpreserved	A	NA	NA	4.7	Y	Absent		EPH-20(14),ME-TS-2540(7)		
L2534336-03A	Vial MeOH preserved	A	NA	NA	4.7	Y	Absent		8260HLW(14),VPH-18(28)		
L2534336-03B	Vial water preserved	A	NA	NA	4.7	Y	Absent	03-JUN-25 21:58	8260HLW(14)		
L2534336-03C	Vial water preserved	A	NA	NA	4.7	Y	Absent	03-JUN-25 21:58	8260HLW(14)		
L2534336-03D	Plastic 2oz unpreserved for TS	A	NA	NA	4.7	Y	Absent		ME-TS-2540(7)		
L2534336-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA	NA	4.7	Y	Absent		PB-Ti(180)		
L2534336-03F	Glass 60mL/2oz unpreserved	A	NA	NA	4.7	Y	Absent		EPH-20(14)		
L2534336-04A	Vial MeOH preserved	A	NA	NA	4.7	Y	Absent		8260HLW(14),VPH-18(28)		
L2534336-04B	Vial water preserved	A	NA	NA	4.7	Y	Absent	03-JUN-25 21:58	8260HLW(14)		
L2534336-04C	Vial water preserved	A	NA	NA	4.7	Y	Absent	03-JUN-25 21:58	8260HLW(14)		
L2534336-04D	Plastic 2oz unpreserved for TS	A	NA	NA	4.7	Y	Absent		ME-TS-2540(7)		
L2534336-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA	NA	4.7	Y	Absent		PB-Ti(180)		
L2534336-04F	Glass 60mL/2oz unpreserved	A	NA	NA	4.7	Y	Absent		EPH-20(14)		



Container Information				Initial			Final			Frozen		
Container ID	Container Type	Cooler	pH	pH	deg C	Pres	Seal	Date/Time	Analysis(*)			
L2534336-05A	Vial MeOH preserved	A	NA	4.7	Y	Y	Absent	03-JUN-25 21:58	8260HLW(14), VPH-18(28)			
L2534336-05B	Vial water preserved	A	NA	4.7	Y	Y	Absent		8260HLW(14)			
L2534336-05C	Vial water preserved	A	NA	4.7	Y	Y	Absent	03-JUN-25 21:58	8260HLW(14)			
L2534336-05D	Plastic 2oz unpreserved for TS	A	NA	4.7	Y	Y	Absent	ME-TS-2540(7)	PB-TI(180)			
L2534336-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA	4.7	Y	Y	Absent					
L2534336-05F	Glass 60mL/2oz unpreserved	A	NA	4.7	Y	Y	Absent					

*Values in parentheses indicate holding time in days



Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: BIDDEFORD
Project Number: 0208555-102

Lab Number: L2534336
Report Date: 06/16/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 131 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, February 2018, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, June 1, 2018.
- 135 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, December 2019, Revision 2.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, March 1, 2020.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

Page 1 of 2

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.**Nonpotable Water:** EPA RSK-175 Dissolved Gases**Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)**

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**Drinking Water****EPA 300.0:** Chloride-N, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

Client Information

Client: Haley & Aldrich
Address: 75 Washington Ave
Portland, ME
Phone: 207-939-1744
Fax:

Email: dlearden@haleyaldrich.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: Biddeford
Project Location: Biddeford, ME
Project #: 0208555-102
Project Manager: Dave Dearden
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: Time:

PAGE 1 OF 1

Date Rec'd in Lab: 6/3/25

Report Information - Data Deliverables

FAX EMAIL
ADEX Add'l Deliverables

ALPHA Job #: 205 3433C

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ME RAGS

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

ANALYSIS
Vols 8260/5035 HPL
EPA-Carbon
VPI-Carbon
TOTAL LEAD-CARBON
TOTAL Solids

ANALYSIS	Vols 8260/5035 HPL	EPA-Carbon	VPI-Carbon	TOTAL LEAD-CARBON	TOTAL Solids
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X

Container Type
Preservative

Relinquished By:

Received By:

Date/Time

6/3/25 1105
6/3/25 1600
6/3/25 1930

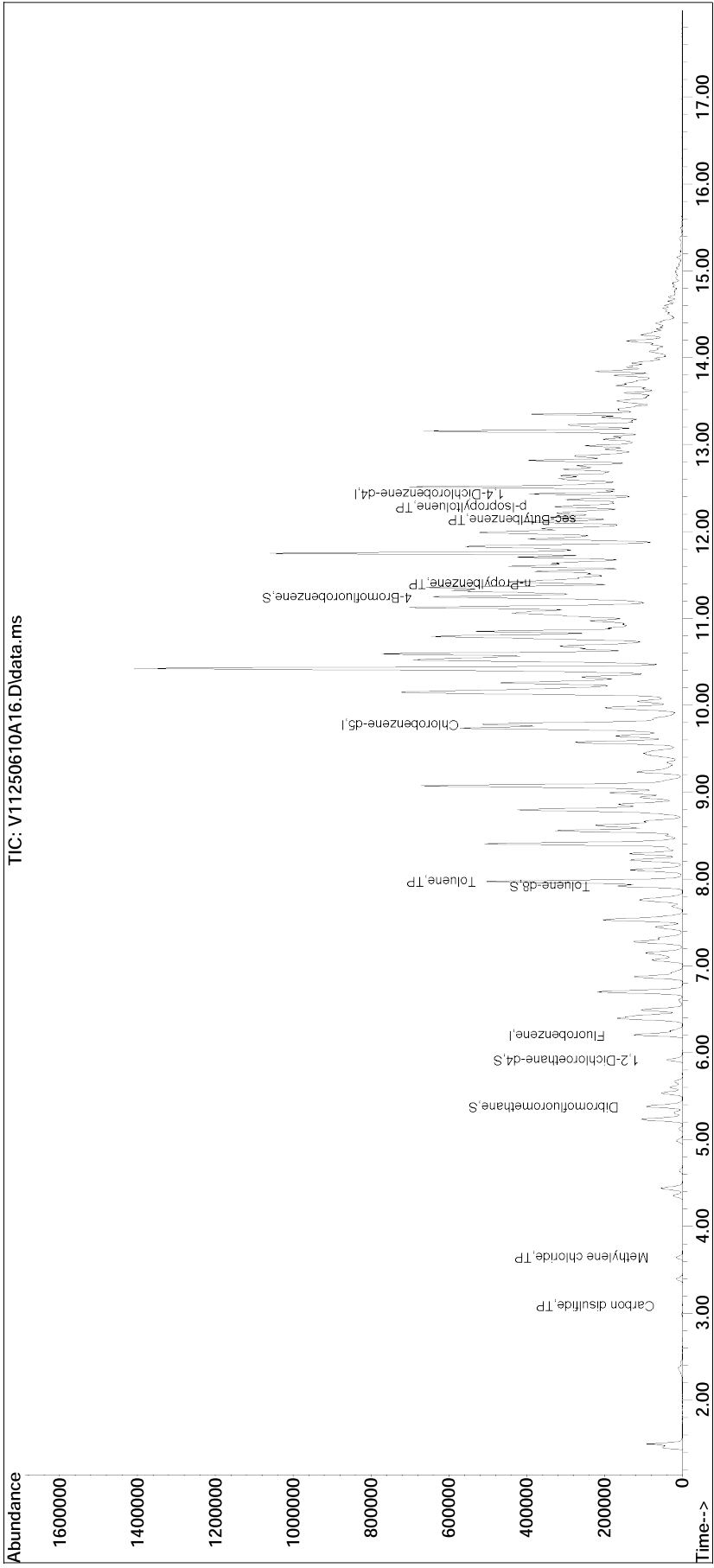
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA111\2025\250610A\
Data File : V11250610A16.D
Acq On : 10 Jun 2025 01:44 pm
Operator : VOA111:JIC
Sample : L2534336-02D,31H,20.59,15,0.05,,A,40.96,62.05
Misc : WG2077590,ICAL22241
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 15:04:41 2025
Quant Method : K:\VOA111\2025\250610A\V111_250501A_8260.m
Quant Title : VOLATILES BY GC/MS
Qlast Update : Fri May 02 09:29:57 2025
Response via : Initial Calibration

Sub List : 8260-Reg - Regular 826010A\V11250610A01.D•



CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA Job #: 613/25

Date Rec'd in Lab: 6/3/25

Report Information - Data Deliverables

Project Information
Project Name: Biddford
Project Location: Biddford, ME
Project #: 0208555-102
Project Manager: Dave Dearden
ALPHA Quote #:
Turn-Around Time

Billing Information

☐ FAX
☐ ADEX
☒ EMAIL
☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program
Criteria
ME RAGS

Regulatory Requirements/Report Limits

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State/Fed Program
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Regulatory Requirements/Report Limits

State/Fed Program
Criteria
ME RAGS

ANALYSIS	Vols 8260/5035 HPL	EPA - Carbon	VPI - Carbon	TOTAL LEAD - CARBON	TOTAL Solids
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
34336-01	GP-102-6-8	6/2/25	21:40	SO	TMR
-02	GP-104-7-7.5	6/2/25	22:40	SO	TMR
-03	GP-105-6-7	6/2/25	23:00	SO	TMR
-04	GP-106-6-7	6/2/25	23:20	SO	TMR
-05	GP-107-6.5-7.5	6/2/25	23:50	SO	TMR

Other Project Specific Requirements/Comments/Detection Limits:

Container Type	Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	6/3/25 1105	<i>[Signature]</i>	6/3/25 1105
<i>[Signature]</i>	6/3/25 1600	<i>[Signature]</i>	6/3/25 1600
<i>[Signature]</i>	6/3/25 1930	<i>[Signature]</i>	6/3/25 1930

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



SAMPLE ACKNOWLEDGMENT

Eight Walkup Drive
Westborough, MA 01581-1019
(508)898-9220

Report To:

Haley & Aldrich
Mr. Dave Dearden
75 Washington Avenue
Suite 1A
Portland, ME 04101-2617

Phone: (207) 482-4600

Email: ddearden@haleyaldrich.com

Invoice To:

58-100939
Haley & Aldrich, Inc.
Accounts Payable
70 Blanchard Road, Suite 430
Burlington, MA 01803

Phone: (781) 685-2104

Email: AccountsPayable@haleyaldrich.com

Pace Project Manager: Melissa Gulli
603.319.5010
Melissa.Gulli@pacelabs.com

Client Project ID: 0208555-102

Pace Analytical SDG: L2534336

Client PO#:

Samples Received: June 3, 2025 11:05 AM

PO Required: No

Estimated Completion: June 12, 2025

State Samples collected in: ME

Invoice CC:

Qty	Unit	Description	Method	Matrix	Price	Total
5	Ea	VOCs - EPA 8260D/5035 High & Low	8260D	Soil	\$ 114.50	\$ 572.50
5	Ea	EPH - Carbon ranges only	EPH-19-2.1	Soil	\$ 258.40	\$ 1292.00
5	Ea	Maine Total Solids - SM 2540G	2540G	Soil	\$ 7.20	\$ 36.00
5	Ea	Total Lead - EPA 6010D	6010D	Soil	\$ 13.10	\$ 65.50
5	Ea	Total Metal Prep	3050/3051	Soil	\$ 13.10	\$ 65.50
5	Ea	VPH - Carbon Ranges only	VPH-18-2.1	Soil	\$ 112.30	\$ 561.50

Information Only-Not An Invoice-Do Not Pay!

Estimated Total: \$ 2593.00

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Confidentiality Statement: The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.



SAMPLE ACKNOWLEDGMENT

Eight Walkup Drive
Westborough, MA 01581-1019
(508)898-9220

Final Report CC: KChatterton@haleyaldrich.com

Customer Sample ID	Pace Analytical Sample ID	Matrix	Date/Time Collected	Product Due Date	Analysis Description
GP-102-6-8	L2534336-01	Soil	06/02/25 21:40	06/12/25	VOCs - EPA 8260D/5035 High & Low EPH - Carbon ranges only VPH - Carbon Ranges only Total Lead - EPA 6010D Total Metal Prep Maine Total Solids - SM 2540G
GP-104-7-7.5	L2534336-02	Soil	06/02/25 22:40	06/12/25	VOCs - EPA 8260D/5035 High & Low EPH - Carbon ranges only VPH - Carbon Ranges only Total Lead - EPA 6010D Total Metal Prep Maine Total Solids - SM 2540G
GP-105-6-7	L2534336-03	Soil	06/02/25 23:00	06/12/25	VOCs - EPA 8260D/5035 High & Low EPH - Carbon ranges only VPH - Carbon Ranges only Total Lead - EPA 6010D Total Metal Prep Maine Total Solids - SM 2540G
GP-106-6-7	L2534336-04	Soil	06/02/25 23:20	06/12/25	VOCs - EPA 8260D/5035 High & Low EPH - Carbon ranges only VPH - Carbon Ranges only Total Lead - EPA 6010D Total Metal Prep Maine Total Solids - SM 2540G
GP-107-6.5-7.5	L2534336-05	Soil	06/02/25 23:50	06/12/25	VOCs - EPA 8260D/5035 High & Low EPH - Carbon ranges only VPH - Carbon Ranges only Total Lead - EPA 6010D Total Metal Prep Maine Total Solids - SM 2540G

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Confidentiality Statement: The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.



Environmental Summary Sheet

WIN: 25653.00
Town: Biddeford
CPD Team Leader: Danielle Tetreau
ENV Field Contact: Nick Koltai

Date Submitted: 8/4/2026

NEPA Complete: Section 326 Categorical Exclusion (CE) 23 CFR 771.117.c.26 issued on 8/4/2026

Section 106

Review Complete: No Adverse Effect - SHPO Concurrence 4/21/2026
Section 106 Resources: see SP 105 for locations and requirements..

Section 4(f) and 6(f)

Section 4(f)

Review Complete - de minimis use

Section 6(f)

Review Complete - No takes

Section 7 – Endangered Species Act
Species of Concern: None

Essential Fish Habitat
Species of Concern: None

Maine Department of Inland Fisheries and Wildlife
Not Applicable Timing Window: Not Applicable

Maine Department of Agriculture, Conservation, and Forestry
Public Lands, Submerged Land Lease: Not Applicable
Maine Land Use Planning Commission: Not Applicable

Maine Department of Environmental Protection
Not Applicable – no resource impacts

Army Corps of Engineers: Clean Water Act.
Not Applicable - no resource impacts

Stormwater Review
MS4 Community - Review Complete

Hazardous Material Review

Review Complete: See SP 203 - Documented and Confirmed contaminant



Special Provisions Required

Standard Specification 656-Erosion Control Plan	N/A ☐	Applicable ☒
Standard Specification 105.8.8-Protected Species	N/A ☐	Applicable ☒
Special Provision 105-Environmental Requirements	N/A ☐	Applicable ☒
Special Provision 203-Hazardous Waste	N/A ☐	Applicable ☒
Special Provision 656-Minor Soil Disturbance	N/A ☒	Applicable ☐
Special Provision 203-Dredge Spec	N/A ☒	Applicable ☐
General Note for Hazardous Waste	N/A ☒	Applicable ☐