

RFP #4236

Roof Replacement Hammonds Plains Consolidated Elementary

RFP Closing Date: Thursday May 30th, 2024

RFP Closing Time: 2:00 PM (ATL)

Submission Email: hrcetenders@hrce.ca

Ready-for-Takeover Date: Friday - August 30, 2024

HRCE Procurement Contact:

Nancy Rideout, Purchasing Manager

Tel: (902) 464-2000 ext 2222

Email: nrideout@hrce.ca

School Location:

Hammonds Plains Consolidated

Elementary,

2180 Hammonds Plains Road, Hammonds Plains, NS B4B 1M5 **Operations Contact:**

Gary Mannette, Project Manager

Cell: (902) 497-8542

Email: gmannette@hrce.ca

Mandatory Site Meeting for Bidders:

Tuesday May 21st, 2024, at 3:00pm

Hammonds Plains Consolidated Elementary

Please meet at School Entrance

RFP submissions are to be submitted by email to: hrcetenders@hrce.ca

RFP documents are available for download from the HRCE's Website: https://www.hrce.ca/about-hrce/financial-services/tenders/tender-listing

In the light of COVID-19 and future pandemics, all vendors are required to follow the guidelines set in place by Nova Scotia Health Authority. Potential risks such as restricted accessibility to schools and buildings of the Halifax Regional Centre for Education (HRCE), inability to complete work on a timely manner due to social distancing, disabled supply chains which will result in delivery delays of raw materials and finished goods, labour shortages and additional storage costs should be clearly communicated with the HRCE Personnel on a timely manner to ensure an amicable solution can be agreed between the HRCE and the vendor/contractor. The HRCE will not be liable for any direct or indirect loss incurred due to a pandemic.

The Terms and Conditions of the RFP Package, including but not limited to the Contract Type and Supplementary Conditions have been modified.

It is the Proponent's Responsibility to review all sections of the RFP prior to submitting a Proposal/Bid.

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SECTION 00 00 15 - DESCRIPTION OF WORK & LIST OF DRAWINGS

1. General

- 1.1 The work of this contract includes the provision of all materials, labour and equipment necessary to complete the <u>Roof Replacement at Hammonds Plains Consolidated Elementary</u>, to remove the existing Roof and materials in areas as noted on the drawings and specifications prepared by FBM Architecture.
- 1.2 It is the intent of the Halifax Regional Centre for Education (HRCE) to have all work completed, to the point of Ready-for-Takeover, prior to <u>August 30, 2024</u>. It is expected that a timely award of this contract will enable the Contractor to facilitate shop drawing review and ordering of materials to allow commencement of work immediately after contract execution.
- 1.3 The whole of the work shall agree in all particulars with the levels, measurements and details contained in the drawings accompanying this specification and with such other drawings or information as may from time to time be supplied by the HRCE or may be supplied by the Contractor and reviewed by the HRCE.
- 1.4 In relation to the hours of work: Work for the HRCE is to be completed during hours when the schools are unoccupied, unless otherwise authorized in writing by the Project Manager (Operations Contact person) or designate. Hours of work shall comply with the local ordinances and bylaws for each site. (Refer Section 00 41 13, Section 3.7)

2. Drawings

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SECTION 00 05 00 - LIST OF CONSULTANTS

Owner: Halifax Regional Centre for Education

33 Spectacle Lake Drive Dartmouth, NS B3B 1X7

Nancy Rideout, Purchasing Manager Office: (902) 464-2000 ext 2222

nrideout@hrce.ca

Consultant: FBM

101-5560 Cunard Street Halifax, NS B3K 1C4

Shawn Doyle

Office: (902) 429-4100 ext 113

doyle@fbm.ca

END OF SECTION

SECTION 00 21 13 – INFORMATION FOR PROPONENTS

Invitation:

1. Proposal Call

- 1.1. The Halifax Regional Centre for Education (HRCE) will receive offers in the form of a two-file proposal from proponents which is signed and electronically received on or before the date and time specified on the cover sheet of this document. The email address to submit submissions and amendments is hrcetenders@hrce.ca. Both files should be submitted in Adobe (.pdf) format. If the electronic submission is larger than 20MB, proponents have the option of sharing files from google drive to hrcetenders@gnspes.ca. If you encounter difficulties kindly contact the HRCE Procurement team for further clarification.
- **1.2.** Proposals received after the closing time will not be considered. The HRCE deems the submission date and time to be the email <u>received</u> date and time. Please ensure to allow sufficient time for your submission to be <u>received</u> by the HRCE before the 2pm close. Please consider that large files may require more time.
- **1.3.** Proponents are to submit completed Request for Proposal (RFP) documents by email.

The technical submission electronic file should be named:

"Technical Submission_4236_Proponent Name".

The second file (Price Submission) should be named:

"Price Submission 4236 Proponent Name".

There must be no reference to the bid price within the technical submission.

Proponents can refer to item 11 in this section for more detailed submission instructions.

1.4. Proposals will be opened at the time indicated on the cover sheet of this document. Public openings are no longer held for any Tenders or RFPs relating to goods, services or construction for the HRCE. The technical submission will be the only file opened during the RFP closing. All proposal submissions are subject to evaluation after opening and before award of contract. The successful proponent and award amount will be posted on the Procurement Services website (http://novascotia.ca/tenders/tenders/ns-tenders.aspx) after award.

1.5. Amendments to the submitted offer will be permitted if received by email prior to bid closing and if endorsed by the same party or parties who signed and executed the offer.

If the amendment relates to the technical submission, the electronic file should be named "Technical Submission Amendment 4236 Proponent Name".

If the amendment relates to the price submission, the file should be named:

"Price Submission Amendment_4236_Proponent Name".

The price amendment file submission should be the signed Price Amendment Form (Section 00 41 73) and shall not disclose either the original or revised total price.

1.6. Bid submissions **will not** be accepted by fax, mail, courier or hand delivery.

2. Intent

- **2.1.** The intent of this Request for Proposals (RFP) is to obtain an offer to perform all work associated with *RFP #4236, Roof Replacement* at *Hammonds Plains Consolidated Elementary* for a Stipulated Price Contract in accordance with the Contract Documents.
- **2.2.** The HRCE will use the CCDC-2, 2020 for this work. A copy of the Standard Construction Contract CCDC 2 2020 is available upon request and will form part of the contract documents.
- **2.3.** The HRCE Supplementary General Conditions for the CCDC-2, 2020, applicable to this work is available for review under Section 0073 00 of the RFP document.
- **2.4.** Ready-for-Takeover (RFT) of the project is to be achieved on or before **August 30, 2024**, provided the contract is awarded within fifteen (15) business days after the RFP closing.
 - **2.4.1.** If the contract is not awarded within fifteen (15) business days of closing, the Ready-for-Takeover Date will be extended by one (1) business day, for every business day that passes, until the contract has been awarded.
 - **2.4.2.** Receipt of the award letter by the successful contractor does not constitute approval to begin work on site.
- **2.5.** The HRCE does not guarantee the award of all areas, phases or any portion thereof.
- **2.6.** The HRCE reserves the right to award individual areas or phases to one contractor or between multiple contractors.
- **2.7.** The HRCE reserves the right to reduce the scope of work if the stipulated bid amount exceeds the budget for the relevant project.

3. Scope of work

3.1. Refer to Section 00 00 15 – Description of Work and List of Drawings and Section 01 11 00 Summary of Work.

4. Availability

- **4.1.** RFP documents are available for download on the HRCE website: https://www.hrce.ca/about-hrce/financial-services/tenders/tender-listing
- **4.2.** RFP documents are made available only for the purpose of obtaining offers for this project. Their use does not confer a license or grant for other purposes.
- **4.3.** The HRCE is not responsible for accuracy of documents obtained from any other source.

5. Examination

- **5.1.** RFP documents are provided to the Construction Association of Nova Scotia (CANS).
- **5.2.** Upon receipt of RFP documents, proponents are to verify that documents are complete.
- **5.3.** Bidders are responsible to retrieve all RFP documents from the HRCE website and fully review the RFP requirements prior to the preparation of a bid submission.

6. Clarification and Addenda

- **6.1.** Proponents must notify the Purchasing Manager, by email at nrideout@hrce.ca no less than **five (5)** working days before the RFP Closing regarding any questions, omissions, errors or ambiguities found in the documents. If HRCE considers that correction, explanation or interpretation is necessary, an addendum will be posted on the HRCE website.
- **6.2.** Addenda will be issued no less than three (3) business days before the RFP closing date and will form part of the Contract Documents.
- **6.3.** All RFP information must be confirmed by written addenda. The HRCE and its representatives shall not be bound by or be liable for any representation or information provided verbally. Information obtained by any other source is not official and will not bind the HRCE.
- **6.4.** Proponents are to complete Price Submission Form (section 00 41 13) acknowledging each addendum that was issued.
- 6.5. Where the HRCE publishes an Addendum modifying the terms of the posting documents, or changing the Project or Contract Documents in any manner, the HRCE shall not be liable for any expense, cost, loss, or any form of damage or damages incurred or suffered; whether directly or indirectly, by any Supplier or any other person in connection with or in any way relating to or resulting from the publication of an Addendum, regardless of whether the publication occurs prior to or after a Supplier has submitted their bid submission.
- **6.6.** All Addenda issued by HRCE shall be become part of the Contract Documents, unless specifically excluded from the Contract Documents in writing. Addenda shall be allowed for in determining the total contract price.

7. Product/System Options

- **7.1.** Alternatives to specified products and systems will only be considered during the bidding period in the manner prescribed below.
 - **7.1.1.** Where the RFP documents stipulate a particular product, alternatives may be considered by the Consultant up to five (5) working days before the RFP closing date and time. Bidders must forward their written requests by email to nrideout@hrce.ca. Requests will be forward to the appropriate person(s) for review.
- **7.2.** The submission must provide sufficient information to enable the Consultant to determine acceptability of such products. Request for an alternate product/system must be accompanied with:
 - **7.2.1.** information about how the request affects other work in order to accommodate each alternate;
 - **7.2.2.** the dollar amount of additions to or reductions from the Price Submission, including revisions to other work.
 - **7.2.3.** A later claim by the bidder for an addition to the contract price because of changes in work necessitated by use of alternates shall not be considered.
- **7.3.** When a request to substitute a product is made and pursuant to consultation with the Consultant, HRCE may approve or disapprove the substitution. The bidder making the request will be notified of the HRCE's decision and if the alternate is approved, the HRCE will issue an addendum.
- **7.4.** Alternates must be submitted in the above manner; otherwise, they will not be accepted.

8. Mandatory Bidders' Site Meeting (Site Assessment)

- **8.1.** Bidders will be deemed to have familiarized themselves with the existing project site, working conditions and all other conditions which may affect performance of the Contract. No plea of ignorance of such conditions as a result of failure to make all necessary examinations will be accepted as a basis for any claims for extra compensation or an extension of time.
 - **8.1.1.** A mandatory bidders' site meeting has been scheduled as per the information on the cover sheet of this document. All bidders are required to attend. Representatives of HRCE and the Consultant will be in attendance.
 - **8.1.2.** Bidders must register their presence with the HRCE stating the name of the contractor they represent. Failure to attend and register will lead to non-acceptance of the proposal by HRCE. HRCE recommends that interested bidders ensure that their proposed subcontractors attend the mandatory site meeting.

9. Bidders Registration

9.1. The successful contractor and sub-contractors must comply with the Nova Scotia Corporations Registration Act and/or Partnerships and Business Name Registration Act, or equivalent, before a contract is awarded.

10. Qualifications (Subcontractors/Other Tradespersons/Individuals)

- **10.1.** Bidders are fully responsible to the HRCE for the acts/omissions of subcontractors and of persons directly or indirectly employed or retained by them. Nothing contained in the contract documents shall create any contractual relation between any subcontractor and the HRCE. Subcontracting the contract shall not relieve the Bidder from any contractual obligations.
- **10.2.** Bidders must provide subcontractors with a copy of the RFP documents making subcontractors aware that the HRCE is not responsible for any payments to subcontractors, and that all actions, directions or claims are solely between the bidder and the subcontractor.
- **10.3.** The Contract, or any portion thereof, shall not be assigned nor sub-contracted without the prior written approval of HRCE, which approval may be withheld in the HRCE's sole discretion. When sub-contracting, successful bidder(s) must be prepared, if requested, to provide copies of billings from subcontractors.
- **10.4.** Successful bidder(s) shall only use additional subcontractors during the course of the contract with the prior written approval of the HRCE.
- **10.5.** The successful bidder(s) shall not re-assign the role of Project Manager to another individual other than the proposed Project Manager as indicated in the technical submission, without prior written approval from the HRCE.
- **10.6.** The successful bidder(s) shall at all times enforce strict discipline and good order among their employees and subcontractors and shall avoid any unfit person or any person not skilled in the work assigned to the employee.
- **10.7.** HRCE reserves the right to reject a proposed sub-contractor for a reasonable cause.
- **10.8.** Refer to GC 3.6 of CCDC-2020.

11. PROPOSAL SUBMISSION

11.1. RFP Proposal Package - A complete proposal package is comprised of the elements below:

11.2. Technical Submission and Price Submission - General

- **11.2.1.** Each proposal shall include a signed technical submission file and a signed price submission file, clearly labelled as previously instructed in Section 00 21 13, item 1.3.
- **11.2.2.** Both the Technical Submission files, and the separate Price Submission file, shall be submitted simultaneously.
- **11.2.3.** The Technical Submission file contents must not contain any reference to the bid price being offered for this project.
- **11.2.4.** The email subject line or body must identify the name of the proponent/company and the RFP name and number.
- **11.2.5.** Proponents shall be solely responsible for the delivery of their proposals in the manner and time prescribed.

11.3. Technical Submission Contents

11.3.1. Technical submissions shall be submitted in a legible format, not to exceed 20 pages. Submissions will be on the proponent's letterhead and shall contain an authorized signature. Proposals shall be submitted in English, and shall be specifically prepared to meet the requirements of this project.

Total RFP Scoring:

Phase A – Technical Score	30 Points
Phase B – Pricing Score	70 Points
Phase C - Total RFP Score	100 Points

The technical submission response shall be organized into four sections:

Section I.	Project Experience and References
Section II.	Team Composition
Section III.	Management of Project Specific Risk
Section IV.	Schedule of Work

I. PROJECT EXPERIENCE AND REFERENCES.

The proponent is required to provide a detailed summary of their company's experience within the past sixty (60) months, by describing three (3) Roof Replacement projects for an educational/commercial institution.

These projects should be within a 100 km radius of the Halifax Regional Municipality. These projects should be similar in nature, complexity and value to the requirements specified in this RFP (see Section 00 00 15).

If a proponent has completed projects for the HRCE, they are required to include the two most recent HRCE projects in this section (regardless of the date completed). It is the bidder's responsibility to source HRCE project information requested in this section.

Please note if the proponent fails to include relevant HRCE projects, this will negatively impact their technical score. If a proponent has not completed prior work (at any time) for the HRCE, then they may select projects of their choosing within the other stipulated parameters.

> For each of the three projects listed, the proponent is asked to provide:

- 1) the company name,
- 2) a brief description of the project,
- 3) the name of the project manager,
- 4) the dollar value of the project.
- 5) A reference contact name and title for this project, and
- 6) their email and phone number.

For HRCE projects, please provide the HRCE Project Manager's name; prior consent is not required.

Please ensure that non-HRCE references are aware they will be contacted, and that prior consent to be a reference was obtained.

RFP Scoring for this section:

SECTION I. PROJECT EXPERIENCE, BASED ON REFERENCE FEEDBACK		
	Project met budget and schedule.	2.00
Project 1	Good quality work and product.	1.00
	Well managed project and good communications.	2.00
	Total Points Available for this Project	5.00
	Project met budget and schedule.	2.00
Project 2	Good quality work and product.	1.00
	Well managed project and good communications.	2.00
Total Points Available for this Project		5.00
	Project met budget and schedule.	2.00
Project 3	Good quality work and product.	1.00
	Well managed project and good communications.	2.00
Total Points Available for this Project		5.00
	Total Points Available for Section I.	15.00

II. TEAM COMPOSITION.

The proponent is required to identify the key personnel who will be assigned to this project, these key personnel must remain with the project until completion. Please provide each employee's name, title/role, and years of related experience.

Proponents are required to provide a detailed resume for the proposed Project Manager outlining professional qualifications and years of experience.

Please indicate the percentage of their time that will be committed to this project.

An *example* of a time commitment for this project could be:

Commitment	Key Personnel
100%	Foreman
50%	Site Supervisor
20%	Project Manager

RFP Scoring for this section is:

SECTION II. TEAM COMPOSITION	Score
Does the Project Manager have a minimum of 3 years of relevant experience?	2.00
Was a listing of key team members provided?	1.00
Was the percentage of commitment indicated and adequate?	2.00
Total Points Available for Section II.	5.00

III. MANAGEMENT OF PROJECT SPECIFIC RISK

Proponents shall identify a minimum of three (3) risks associated with this specific project. Risks that their company could be faced with related to the scope of work for this project. Proponents shall state the risk, risk mitigation strategy, responsible parties, and the impact to schedule or budget.

An example of a Project Specific Risk could be:

Risk Register Example			
Risk	Mitigation	Responsibility	Impact
Specified materials	1. Expedite delivery if	Contractor. Client	Expedited delivery or
have long lead times.	available.	and Consultant	alternative materials may
	2. Source alternative	approval required.	increase cost and impact
	equivalent materials		budget.
	that are readily		Without mitigation the
	available.		schedule will be impacted.

Standard safety risks covered by Safe Work Practices are not to be referenced here. The HRCE is looking for assurances that risks identified through the mandatory site meeting are identified and will be mitigated, and that potential delays or other risks are disclosed in the proposal.

RFP Scoring for this section is:

SECTION III. MANAGEMENT OF RISKS ASSOCIATED WITH THIS SPECIFIC PROJECT	
Did the proponent detail the 3 Project Specific Risks with mitigation strategies?	3.00
Are risk management responsibilities clearly identified and assigned?	1.00
Were appropriate risk impacts provided for the 3 stated risks?	
Total Points Available for Section III.	5.00

IV. SCHEDULE OF WORK

Please provide a Gantt Chart that includes an appropriate amount of detail around the planning and scheduling needs for this project. The Gantt Chart should contain all the key activities and align with the work schedule. A successfully prepared Gantt Chart provides a clear visual representation of how the project and required tasks will be completed.

If the Ready for Takeover Date cannot be met, please communicate this to procurement as an <u>RFI</u> well before RFP close.

The HRCE expects to award this work within 15 days of close. Please ensure that the proposed schedule of work aligns with that timeframe.

RFP Scoring for this section is:

SECTION IV. SCHEDULE OF WORK	Score
Does the Gantt Chart include all required components? Is the schedule reasonable?	2.00
Does the schedule indicate project completion <u>before</u> the Ready for Takeover date? If the Ready for Takeover date cannot be met, please submit a RFI prior to RFP close.	3.00
Total Points Available for Section IV.	5.00

11.4. Price Submission Contents

11.4.1 The Price Submission is to be submitted on the forms provided by the HRCE (Section 00 41 13 – Price Submission Form). These forms are to be completed in full, with an authorized signature and corporate seal as applicable. The completed form shall be without interlineations, alterations or erasures.

Proponents are advised that the HRCE may request original documents be sent to the HRCE office for further review. Price submissions sent by fax, mail or hand delivered will not be accepted.

- **11.4.2** The pricing details are to be clearly indicated. The total contract price in both numbers (dollars and cents) and written words must be entered. Should there be a discrepancy between the two, the written words shall prevail.
- **11.4.1.** The executed pricing offer is to be submitted on the forms **together with a scanned copy of the required bid security** by email.
- **11.4.2.** Improperly completed information, and/or irregularities in the bid security, may be cause to declare the submission non-compliant.

The omission of bid security from the bid submission will result in the submission being deemed as non-compliant (Refer Section 14.1.10).

11.5. Proposal Evaluation

11.5.1. Evaluation Process – Compliant proposals will be evaluated, first during Phase A, and those meeting the minimum qualifying score under Phase A will then be evaluated in Phase B, with a final score determined in Phase C.

Phase A – Technical Score	30 Points
Phase B – Pricing Score	70 Points
Phase C - Total RFP Score	100 Points

- **11.5.2.** Proposals that do not meet the minimum qualifying score for Phase A will not be given further consideration.
- **11.5.3.** Proposals will be evaluated and scored by an evaluation team comprised of a minimum of three (3) representatives of the HRCE. The degree to which a proposal meets the proposal requirements will be determined at the sole discretion of the HRCE evaluation team.
- **11.5.4. Phase A Technical Submission** The Technical Submission for compliant proposals will be evaluated using the evaluation criteria set out in the table below. Scores will be recorded for each criterion (rounded to two (2) decimal points) and a total qualifying score will be determined.

Refer 11.3.1	Phase A - Evaluation Criteria Technical Submission	Score
Section I.	Project Experience and References	15.00
Section II.	Team Composition	5.00
Section III.	Management of Project Specific Risks	5.00
Section IV.	Section IV. Schedule of Work	
Total Phase A - Potential total score - Technical Submission		
Minimum score needed to pass technical		

A minimum qualifying score of 15.00 points is required in Phase A for the proposal to be given further consideration.

All technical submissions that have met the minimum qualifying score will proceed to Phase B - Price Submission.

Technical submissions that score below the minimum qualifying score will not proceed further in the RFP evaluation process.

11.5.5. Phase B - Price Submission - Price Submission files for proponents whose Technical Submission have received fifteen (15.00) points or greater will be opened.

The Price Submission will have a weight of seventy (70.00) points.

Price submissions will be evaluated, and a Phase B score will be assigned to each proponent by using a proximity to lowest price method. In this method, proponents will be awarded points based on how close their total price submitted compares with the lowest cost of all total submissions.

Price Submissions will be Evaluated based on the Proponent's Lump Sum Price.

For example:

Formula: Price Score = % value of score x (Low bid ÷ Your bid)

Example for calculation: Bid Pricing Received

Company P	Company Q	Company R	Company S	Company T
\$115,000	\$135,000	\$185,000	\$165,000	\$180,000

Calculation of Pricing Score for Company S:

Phase B Score = 70 points x $($115,000 \div $165,000) = 48.79$ points

The Total Score (Phase C) will be calculated by adding together Phase A + Phase B scores.

11.5.6. The proponent who has the highest **TOTAL SCORE** (Phase C calculation), will be deemed to be the successful proponent, subject to other provisions herein, including Section 16.5.

Phase A – Technical Score	30 Points
Phase B – Pricing Score	70 Points
Phase C - Total RFP Score	100 Points

12. Conditions of the RFP Process

12.1. Proponents shall take full cognizance of content of all Contract Documents in preparation of their proposal. Section 00 41 13 – Price Submission Form, Subsection 5.0 references a complete list of Contract Documents.

13. Amendment or Withdrawal of Proposals

- **13.1.** Proposal packages may be **withdrawn** from the RFP process in writing by email notification sent to the submission email address, prior to date and time of closing.
- **13.2.** As previously stated in Section 00 21 13, item 1.6 Amendments to the submitted offer will be permitted if received by email prior to the RFP closing time and if endorsed by the same party or parties who signed and executed the offer. If the amendment relates to the technical submission, it must be labeled "Technical Submission Amendment" along with the RFP number of the project and the company name. If the amendment relates to the price submission, it must be labeled "Price Submission Amendment" along with the RFP number of the project and the company name. The price amendment file must include the signed "Price Amendment Form" (Section 00 41 73).
- **13.3.** A single page Price Amendment Form is provided immediately following the Price Submission Forms (Section 00 41 73).
 - **13.3.1.1.** The Price Amendment Form provided is the standard master form for submission of any price amendments for this project.
 - **13.3.1.2.** The Price Amendment Form must be copied and completed, as directed, for any price amendments submitted.
- **13.4.** Price amendments shall not disclose either original or revised total price.

14. Proposal Ineligibility (Reason for Rejection)

- **14.1.** HRCE may reject a proposal which has been received prior to the closing time where:
 - **14.1.1.** The two file (electronic) system (Technical Submission and Price Submission) is not followed.
 - **14.1.2.** The price submission is not submitted on the required forms (Section 00 41 13) included herein.
 - **14.1.3.** The proposal is submitted by facsimile or regular mail or hand delivery.
 - **14.1.4.** There are omissions of information that the HRCE in its sole discretion deems to be significant.
 - **14.1.5.** The technical submission or price submission form is not signed as required.
 - **14.1.6.** The proposal has conditions attached which are not authorized by the invitation to bid.
 - **14.1.7.** The proposal fails to meet one or more standards specified in the invitation to bid.
 - **14.1.8.** All addenda have not been acknowledged.
 - **14.1.9.** Any other defect which, in the opinion of the HRCE brings the meaning of the proposal into question.

- **14.1.10.** The required bid security is not provided within the Price Submission file.
- **14.1.11.** Proponent failed to attend bidders' mandatory site meeting.
- **14.1.12.** Proponent failed to list relevant HRCE project(s) in their Technical submission.

15. Communications Affecting Bids

- **15.1.** Transmissions, including, but not limited to facsimile transmission:
 - **15.1.1.** The technical submission or price submission forms submitted by mail, fax or courier will not be accepted.

16. Right to Accept or Reject any Proposal

- **16.1.** The HRCE reserves the right to reject any proposal in its sole and absolute discretion for any reason whatsoever and the HRCE will not necessarily accept the lowest bid.
- **16.2.** The HRCE specifically reserves the right to reject all proposals if none are considered to be satisfactory in the HRCE's sole and absolute discretion and, in that event, at its option, to call for additional proposals.
- **16.3.** Without limiting the generality of any other provision herein, the HRCE reserves the right to accept or reject any proposal in accordance with item #14 above (Proposal Ineligibility).
- **16.4.** Notwithstanding the above, the HRCE shall be entitled, in its sole and absolute discretion, to waive any irregularity, informality or non-conformance with these instructions in any proposal received by the HRCE. The HRCE reserves the right to reject any or all proposals, or to accept any proposal, or portion thereof, deemed in its best interest.
- **16.5.** In the event that more than one proponent achieves an identical final total score within two decimal places in Phase C, the HRCE will flip a coin to determine the successful contractor.
- **16.6.** No term or condition shall be implied, based upon any industry or trade practice or custom or in a practice or policy of the HRCE or otherwise, which is inconsistent or conflicts with the provisions contained in these instructions.

17. Right to Cancel Competition/No Award

- **17.1.** Issuing a RFP/RFT implies no obligation on HRCE to accept any submission, or a portion of any submission. The lowest or any RFP/RFT submission will not necessarily be accepted.
- **17.2.** Without limiting the generality of the foregoing, an RFP/RFT may be cancelled in whole or in part by HRCE in its sole discretion, whether before or after the time for RFP/RFT submissions has closed, when:
 - **17.2.1.** The RFP/RFT submission price exceeds the funds allocated for the purchase;
 - **17.2.2.** There has been a material change in the procurement requirements after the RFP/RFT has been issued;

- **17.2.3.** Information has been received by HRCE after issuance of the RFP/RFT that HRCE believes has materially altered the procurement or the need of HRCE for the procurement; or
- **17.2.4.** There was insufficient competition in order to provide the level of service, quality of goods or pricing required.
- 17.3. If no compliant RFP/RFT submission is received in response to an RFP/RFT, the HRCE reserves the right to enter into negotiations with one or more suppliers in order to complete the procurement or to reject all Bids and re-issue the RFP/RFT on new or modified RFP/RFT Documents.
- **17.4.** HRCE will be the sole judge of whether there is sufficient justification to cancel any RFP/RFT.
- **17.5.** No action or liability will lie or reside against HRCE in its exercise of its rights under this section

18. Construction Contract Guidelines

18.1. The printed policies of the Nova Scotia Construction Guidelines dated May 18, 2006 (or latest revisions) are applicable to these RFP documents.

19. Submission and Security Forms – Signatures

19.1. All Price Submission forms, bid security forms and performance assurance forms **must** bear the Bidder's original signature and name HRCE as the insured.

20. Bid Security

- 20.1. Proponents must submit within the sealed Price Submission file, one of the following: bid security in the form of a certified cheque, Irrevocable Letter of Credit, or Bid Bond on CCDC Form 220, in the amount of ten percent (10%) of the Bid Price made payable to or naming HRCE (as obligee). This bid security must accompany the Price Submission as an electronic file. HRCE will request an original hard copy from the successful proponent as required.
- **20.2.** Where bid bond is provided as bid security:
 - **20.2.1.** The bond must be provided on the standard CCDC Bid Bond Form (latest version) in the amount of not less than ten percent (10%) of the Bid Price.
 - **20.2.2.** The bond must be submitted by the general contractor bidder, signed and sealed by the principal (Contractor) and Surety and shall be with an established Surety Company satisfactory to and approved by the HRCE.
 - **20.2.3.** The cost of providing the Bid Bond must be included in the Bid Price.
 - **20.2.4.** A legible scanned copy of the bid bond or an electronic bid bond shall be submitted with the bid via email. If requested by the HRCE, the vendor will provide the original bid bond without delay.

- **20.3.** Where a certified cheque or a bank draft is provided as bid security:
 - **20.3.1.** The certified cheque or bank draft must be endorsed in the name of HRCE, for a sum not less than ten percent (10%) of the amount of the Bid Price.
 - **20.3.2.** The cost of providing the certified cheque or bank draft must be included in the Bid Price.
- **20.4.** Where the Irrevocable Standby Letter of Credit is used as bid security:
 - **20.4.1.** The letter must be endorsed in the name of HRCE, for a sum not less than ten percent (10%) of the Bid Price
 - **20.4.2.** The Irrevocable Standby Letter of Credit shall be issued by a certified financial institution subject to the Uniform Custom and Practices for Documentary Credit (1993 revision or latest revision), International Chamber of Commerce (Publication No. 500).
 - **20.4.3.** The cost of providing the letter must be included in the Bid Price.
 - 20.4.4. A legible scanned copy of the bid bond or an electronic bid bond can be submitted with the bid via email. If requested by the HRCE, the vendor is required to provide the original bid bond without delay.
- **20.5.** Return of Bid Security:
 - **20.5.1.** The bid security of the unsuccessful proponents will be returned to them after the contract has been signed, or previous to such time, at the discretion of HRCE.
 - **20.5.2.** If no contract is awarded, all bid security will be returned.

21. Contract Security (Performance Assurance) – Required for contracts valued over \$100,000

- **21.1.** The performance assurance forms must bear the bidder's original signature and name HRCE as the insured.
- **21.2.** The successful contractor shall maintain performance assurance in force for a period of not less than twelve (12) months after Ready-for-Takeover is achieved.
- **21.3.** Performance Assurance must be endorsed as specified for bid security.
- **21.4.** Should it become apparent that the final cost of the project will exceed the total amount payable by more than 20%, the bidder shall arrange to have their bonds reissued based on the projected final cost.
- **21.5.** Section 00 72 13 General Conditions GC11.2 and Section 00 73 00 Supplementary General Conditions for form of Contract Security. Proponents should reference the project documents for the amount of Contract Security and the alternate type of Contract Security if applicable.
- **21.6.** Performance Assurance must be submitted as one of the following:
 - **21.6.1.** Where a Bid Bond was used as bid security:

- Within ten (10) days after notification of award of the Contract, the successful contractor must provide a Performance Bond and a Labour & Material Payment Bond, each in an amount equal to fifty percent (50%) of the amount of the Contract, naming HRCE.
- **21.6.1.2.** Performance Bond and Labour and Material Payment Bonds, submitted by the bidders, shall be provided at the expense of the bidder and shall be with an established Surety Company satisfactory to and approved by the HRCE.
- **21.6.2.** Where a certified cheque or bank draft is used as Contract Security:
 - **21.6.2.1.** The certified cheque or bank draft submitted during the bid period will be cashed and the amount retained by the HRCE shall serve as Performance Assurance, including the payment of all obligations arising under the Contract.
 - 21.6.2.2. The value of the certified cheque or bank draft will be retained in lieu of the Performance Bond and Labour and Material Bonds, providing that, at Contract award, the successful contractor shall supplement their certified cheque or bank draft to maintain an amount of ten (10%) of the total amount payable (Contract Price plus HST) under the contract.
 - **21.6.2.3.** The amount remaining will be returned without interest after a period of not less than twelve (12) months after Ready-for-Takeover is achieved.
 - **21.6.2.4.** Where certified cheque or bank draft is used as Performance Assurance, the cost of providing the certified cheque or bank draft in the Contract price.
- **21.6.3.** Where an Irrevocable Standby Letter or Credit is used as Contract Security:
 - 21.6.3.1. The Irrevocable Standby Letter of Credit submitted during the bid period will be retained by the HRCE and shall serve as performance assurance, including the payment of all obligations arising under the contract. The Irrevocable Standby Letter of Credit shall be issued by a certified financial intuition subject to the Uniform Customs and Practices for Documentary Credit (1993 revision) International Chamber of Commerce (Publication No. 500).
 - **21.6.3.2.** Where an Irrevocable Standby Letter of Credit is used as Performance Assurance, the cost of providing this letter should be included in the Contract Price. The contractor shall provide to the HRCE

- documentation throughout the duration of the contract that the Irrevocable Standby Letter of Credit remains in full effect at all times as specified.
- 21.6.3.3. Upon expiry of the Irrevocable Standby Letter of Credit, a separate Irrevocable Standby Letter of Credit shall be provided for work requiring extended warranties for such amounts as are required by the contract.
- **21.6.3.4.** The Irrevocable Standby Letter of Credit is to be in effect for a period of not less than twelve (12) months after the Ready-for-Takeover is achieved.

22. Insurance

22.1. Proponents shall refer to project documents for the amount of insurance, the duration of coverage and alternate type of insurance; if applicable.

Section 00 72 13 -General Conditions of Contract,

Section GC 11.1 – Insurance, and

Section 00 73 00 – Supplementary General Conditions for form of Insurance.

- **22.2.** The contractor shall carry such insurance as is required to protect the contractor, any subcontractor, the HRCE, their agents and employees from all claims which may arise from the operations under this contract. The amounts of such insurance shall not be less than 22.3 below.
- **22.3.** The General Contractor shall secure and maintain, at its expense, during the term of the insurance:
 - **22.3.1.** Wrap-Up Liability insurance must insure the general contractor(s) and all subcontractors on this project:
 - **22.3.1.1.** including but not limited to, products liability and completed operations, contractual liability, owners and contractors' liability, attached machinery extension endorsement, and independent contractor, for a combined single limit of no less than \$5,000,000 (five million dollars) per occurrence.
 - **22.3.1.2.** Wrap-Up Liability insurance is to include 24 months (2 years) of completed operations.

- **22.3.2.** <u>Commercial Auto Liability</u> insurance covering all owned, non-owned and hired vehicles for a minimum combined single coverage of \$2,000,000 (two million dollars) per occurrence.
- **22.3.3.** <u>Builders Risk</u>: All risks in the amount of the contract Stipulated Bid Price. Insurance requirements as stipulated in the CCDC 2-2020.
- **22.3.4.** Workers' Compensation to meet statuary requirements and/or Employers Liability, with limits of not less than \$2,000,000 (two million dollars).
- **22.3.5.** Contractors Pollution Liability Insurance limits of not less than \$2,000,000 (two million dollars) per occurrence
- **22.4.** Primary Insurance: The Contractor agrees that the insurance as required shall be primary and non-contributory.
- **22.5.** <u>No Limitation</u>: The Contractor is responsible for determining whether the minimum insurance coverage amounts contained in this RFP are adequate to protect its interests. These minimum coverage amounts do not constitute limitations upon Supplier's Liability.
- **22.6.** Endorsements For the policies in item 22.3 above, there shall contain an endorsement naming the Halifax Regional Centre for Education and its affiliates as Additional Insured, and eliminating and removing any exclusion of liability for:
 - **22.6.1.** injury, including bodily injury and death to an employee of the insured or of the Halifax Regional Centre for Education, or
 - **22.6.2.** any obligation of the insured to indemnify, hold harmless, defend, or otherwise make contribution to the Halifax Regional Centre for Education because of damage arising out of injury, including bodily injury and death, to an employee of Halifax Regional Centre for Education.
- **22.7.** The Contractor shall provide a certificate of insurance evidencing the above prior to work being performed. The HRCE also requires a complete copy of the Builder's Risk and Wrap-Up Liability policies, in addition to the Certificate of Liability Insurance.
- **22.8.** Furthermore, HRCE must receive, in writing, at least thirty (30) days' notice of cancellation or modification of the above insurances. All insurance policies or certification documents shall specify coverage being applicable to this contract. The

Contractor shall not do or omit to do or suffer anything to be done or omitted to be done which will in any way impair or invalidate such policy or policies of insurance.

22.9. Insurance documents (certificate and policies) shall be provided to the Purchasing Department within the timeframe indicated on the award letter. These documents are required before a purchase order will be issued. Work is not authorized and shall not commence until receipt of the purchase order.

23. Proof of Competency of Proponent

- **23.1.** Any bidder may be required to furnish evidence satisfactory to the owner that he and his proposed sub-contractors have sufficient means and experience in the types of work called for to assure completion of the contract in a satisfactory manner.
 - **23.1.1.** The successful contractor must be a member in good standing with CRCA, RCANS or NBRCA; and Nova Scotia Construction Safety Association or approved recognized association or program.

23.2. Proposal Signing

23.2.1. The Technical Submission and the Price Submission form must be signed and under seal (as applicable) by a duly authorized signing officer(s) in their normal signatures.

23.3. Contract Time

23.3.1. The bidder, in submitting an offer, agrees to achieve Ready-for-Takeover of the work by the date indicated in the contract documents.

24. Offer Acceptance / Rejection

- **24.1.** Duration of offer
 - **24.1.1.** Proposals shall remain open to acceptance and shall be irrevocable for a period of ninety (90) days after the RFP closing date.
- **24.2.** Award/Selection/Acceptance of Offer
 - **24.2.1.** In the evaluation of a proposal, HRCE will consider, but not be limited to, the following criteria:
 - **24.2.1.1.** Compliance with proposal requirements
 - **24.2.1.2.** Proposal Evaluation Criteria as stated in Section 11.5
 - **24.2.2.** The Owner's evaluation of any and all proposals will be final
- **24.3.** After acceptance by HRCE, the successful bidder shall be notified in writing of acceptance of the bid by way of an award letter.

25. Agreement

- **25.1.** After acceptance, the HRCE and the successful proponent will enter into a CCDC-2, standard form of contract for the execution of the work.
- **25.2.** A purchase order will be issued to the successful bidder once the contract has been signed and executed.

26. Post Award Submissions

- **26.1.** Upon receipt of the award letter, the successful contractor will provide the following documents within five (05) business days:
 - 26.1.1. A current Certificate of Recognition or Letter of Good Standing The Contractor will supply a Certificate of Recognition issued jointly by the Workers' Compensation Board of Nova Scotia and an occupational health and safety organization approved by the Workers' Compensation Board of Nova Scotia (such as the Nova Scotia Construction Safety Association). These approved organizations are currently listed on the Workers' Compensation Board of Nova Scotia website (www.wcb.ns.ca). The contractor shall remain in good standing for the duration of the contract.

The Contractor shall supply the following:

- **26.1.1.1.** Worker's Compensation Coverage The Contractor shall supply a clearance letter from the Worker's Compensation Board of Nova Scotia, indicating the Contractor is assessed and in good standing;
- **26.1.1.2.** Certificates of good standing with CRCA (Canadian Roofing Contractors Association) and RCANS (Roofing Contractors Association of Nova Scotia);
- **26.1.1.3.** All required contract security and insurance documentation;
- **26.1.1.4.** A completed Schedule of Values (see Section 01 37 00);
- **26.1.1.5.** A completed Safety Plan; and,
- **26.1.1.6.** A detailed listing of subcontractors to be used.
- **26.1.2.** In the event that any such certification during the term of the contract expires, the obligation remains with the Contractor to provide the updated required certificates.
- **26.1.2.1.** The Contractor and subcontractors (if applicable) shall remain in good standing for the duration of the contract.

27. Taxes

27.1. The General Conditions of the Contract state that the Contractor is to pay all Harmonized Sales Tax (HST).

- **27.2.** The HRCE is not exempt from HST. As a result, the aggregate amount of the bid for contracts is subject to HST; however, **prices submitted shall not include HST.**
- **27.3.** The HST payable by the HRCE will be added as a separate item during the processing of progress payments and therefore **HST will not appear as a cost in the aggregate amount of the bid amount.**
- **27.4.** Proponents are advised that they may be eligible to claim an Input Tax Credit (ITC) for a portion of the HST paid in relation to the contract requirement of the Government of Canada.
- **27.5.** Proponents are to note that prices indicated on the Price Submission Form and the amendments to the Price Submission Form shall not include Provincial Sales Taxes, the Federal Goods and Services Tax or the Harmonized Sales Tax.
- 27.6. Refer to CCDC-2 (Section 00 72 13) and Supplementary General Conditions (Section 00 73 00).

28. Proponent Debriefing

28.1. HRCE will, if requested by a proponent within fifteen (15) days of notice of RFP award, arrange a debriefing for the purpose of informing the bidder why their proposal was not selected. At least two (2) HRCE staff shall attend the de-briefing.

The purpose of the de-briefing will be to discuss the proponent's scoring, answer questions and identify any weak areas in the proponent's submission in order for the proponent to improve future bid submissions. HRCE will not divulge details contained in any proponent's proposal with other proponents or overall ranking.

29. Purchase Orders

29.1. The purchase order will be issued by the HRCE Purchasing Department once the CCDC-2 Contract Documents have been fully executed by all parties.

30. Invoices

- **30.1.** The purchase order number and HST number shall be noted on any/all invoices related to all work performed under this contract.
- **30.2.** Applications for progress payments should be submitted to HRCE's consultant and cc'd to operations-invoices@hrce.ca as well as HRCE's Project Manager (Operations Contact) identified on the RFP cover page.

SECTION 00 31 26 – EXISTING HAZARDOUS MATERIALS INFORMATION

The following report is attached for bidders' information and reference:

Hammonds Plains Consolidated Elementary, 2180 Hammonds Plains Road, Hammonds Plains, NS, prepared by Pinchin Ltd., dated April 04, 2024.

SECTION 00 41 13 – PRICE SUBMISSION FORM

1	Sa	lutation:
	7.4	IIII AI ION'

To: HALIFAX REGIONAL CENTRE FOR EDUCATION

33 SPECTACLE LAKE DRIVE, DARTMOUTH, NS B3B 1X7 ATTN: NANCY RIDEOUT, PURCHASING MANAGER

For: #4236 Roof Replacement – Hammonds Plains Consolidated Elementary

Organization Name:	
Street Address:	
Email Address:	
Telephone:	
Authorized Signing Authority:	
Position Title:	

2. Proponent Declares:

- **2.1.** That this submission was made without collusion or fraud.
- **2.2.** That the proposed work was carefully examined.
- **2.3.** That the Proponent is familiar with local conditions.
- **2.4.** That Contract Documents and Addenda were carefully examined.
- **2.5.** That all the above were taken into consideration in preparation of this RFP.

3. Proponent Agrees:

3.1. To provide all necessary equipment, tools, labour, incidentals and other means of construction to do all the work and furnish all the materials of the specified requirements which are

- necessary to complete the work in accordance with the Contract and agrees to accept, therefore, as payment in full the Lump Sum Price stated in Subsection 6 hereunder.
- **3.2.** The have carefully examined the site of the work described herein; have become familiar with local conditions and the character and the extent of the work; have carefully examined every part of the proposed Contract and thoroughly understand its stipulations, requirements and provisions.
- **3.3.** The have determined the quality and quantity of materials required; have investigated the location and determined the source of supply of the materials required; have investigated labour conditions; and have arranged for the continuous prosecution of the work herein described.
- **3.4.** To be bound by the award of the Contract and if awarded the Contract on this bid price, to execute the required contract within ten (10) days after notice of award.
- **3.5.** They have noted that the Harmonized Sales Tax is excluded from the "Contract Price".
- **3.6.** The Contractor's employees shall always report to the main office of a school, indicate who they are, and state their purpose on site prior to starting any work in the school.
- 3.7. To the hours of work, defined as: Work for the HRCE is to be completed during hours when schools are unoccupied, unless otherwise authorized in writing by the Project Manager (Operations Contact person) or designate. Hours of work shall comply with local ordinances and bylaws for each site.
 - **3.7.1.** No work shall be conducted on weekends or statutory holidays without specific written approval from the Operations Manager or designate.
 - **3.7.2.** In the event that work is requested by HRCE during hours when schools are occupied, the work will be limited to work that is not disruptive to the school. There shall be no mechanical removals, no drilling, screwing or torch work during occupied hours without prior written approval from HRCE.

4. Owner Agrees

- **4.1.** To examine this proposal and in consideration, therefore, the proponent hereby agrees not to revoke this bid:
 - **4.1.1.** until some other proponent has entered into the Contract with the HRCE for the performance of the work and the supply of the materials specified in the notice inviting proposals; or in the Information to Proponents, or
 - **4.1.2.** until ninety (90) days after the time fixed in the Information to Proponents for receiving bids has expired, or
 - **4.1.3.** Whichever first occurs; provided, however, that the Proponent may revoke this proposal at any time before the time fixed as indicated in the section 00 21 13, item 13.1.

5. Contract Documents include:

The HRCE will use the CCDC-2, 2020 for this work. A copy of the Standard Construction Contract CCDC 2 – 2020 is available upon request and will form part of the Contract Documents.

The HRCE Supplementary General Conditions for the CCDC-2, 2020 application to this Work is available for review under Section 0073 00 of the RFP document.

- **5.1.1.** Cover Page
- **5.1.2.** Table of Contents Section 00 00 10
- **5.1.3.** Description of Work & List of Drawings Section 00 00 15
- 5.1.4. List of Consultants Section 00 05 00
- **5.1.5.** Information for Proponents Section 00 21 13
- **5.1.6.** Price Submission Form Section 00 41 13
- **5.1.7.** Price Amendment Form (if applicable) Section 00 41 73
- **5.1.8.** Agreement Between Owner and Contractor (CCDC 2) Section 00 52 00
- **5.1.9.** Definitions (CCDC 2) Section 00 52 13
- **5.1.10.** General Conditions of the Stipulated Contract Price (CCDC 2) Section 00 72 13
- **5.1.11.** Supplementary General Conditions Section 00 73 00
- **5.1.12.** Specifications of Work (all applicable sections)
- **5.1.13.** Drawing(s) as applicable
- **5.1.14.** Addenda issued by HRCE
- **5.1.15.** Post Bid Addenda issued by the HRCE, where applicable.
- **5.1.16.** Executed Contract

6. Price Submission - Contract Price:

6.1. The undersigned Proponent, having carefully read and examined the aforementioned Contract Documents prepared by the Consultant, for the Halifax Regional Centre for Education, hereby accepts the same as part and parcel of the Contract herein referred to, and having carefully examined the locality and site of works and having full knowledge of the work required and of the materials to be furnished and used, does hereby propose and offer to enter into a contract to perform and complete, the whole of the said works and provide all necessary labour, plant, tools, materials and equipment and pay all applicable taxes, as set forth and in strict accordance with the Specifications, Drawings and other Contract Documents and to do all therein called for on the terms and conditions and under the provisions therein set forth for the following:

6.2 LUMP SUM PRICE

#4236 Roof Replacement – Hammonds Plains Consolidated Elementary

	/100	Dollars (\$
(HST Excluded)	, 100	Donars (\$

Contract Price to be completed in written form on the lines provided above, with cents expressed as numerical fraction of a dollar. Contract price to be completed in numerical form on the line bounded by parenthesis above, with cents expressed as a decimal of a dollar.

Price Submissions will be Evaluated based on the Proponent's Lump Sum Price.

WHERE THERE IS A CONFLICT, WRITTEN WORD WILL GOVERN.

Award will be subject to Budget Availability.

The HRCE reserves the Right to:

Award to one or more contractors who bid.

Accept bids on any or all sections of this work.

Reduce the Scope of Work if the Bid amount Exceeds the Available Budget.

6.3 INDIVIDUAL PRICE – EACH ROOF SECTION

The lump sum price provided in Section 6.2 represents the total price to complete this roof project in its entirety. HRCE acknowledges that there are inherent costs savings and economies of scale achieved when awarding all roof sections to a single bidder.

In the event that partial award is required, please provide pricing per each individual section as listed below. Each price is to include all management costs (administration, mobilization, etc.) as required to perform the entirety of the work for that specific section. HRCE acknowledges that management costs are higher on a per section basis, compared to management costs associated with all sections priced as one lump sum.

The expectation is that the pricing provided below represents the entire price to complete that specific section, should it be the only section awarded. The pricing provided here will not be used in the calculation of the RFP scoring; see Section 6.2 Lump Sum Price.

SECTION 00 41 13 PRICE SUBMISSION FORM

SECTION A		
(HST Excluded)	/100	Dollars (\$
SECTION B		
(HST Excluded)	/100	Dollars (\$
SECTION C		
(HST Excluded)	/100	Dollars (\$
SECTION D		
(HST Excluded)	/100	Dollars (\$
SECTION E		
(HST Excluded)	/100	Dollars (\$

SECTION 00 41 13 PRICE SUBMISSION FORM

7. Completion Date:

- **7.1.** The proponent agrees to achieve Ready-for-Takeover on or before the following date:
 - 7.1.1.1. August 30, 2024
 - 7.1.1.2. The undersigned Proponent agrees, if awarded the Contract, to achieve the Ready-for-Takeover Date providing the contract is awarded within fifteen (15) business days of RFP closing time.

8. Addenda Acknowledgement

We have received and noted the following addenda:

Addendum #	Dated		# of Pages
		_	
		-	
		-	
		-	
		-	
		-	

SECTION 00 41 13 PRICE SUBMISSION FORM

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Signature * The undersigned Proponent declares that this bid is made without connection to any other person(s) submitting pricing for the same work and is in all respects fair and without collusion or fraud.

RFP #4236 Roof Replacement – Hammonds Plains Consolidated Elementary

SIGNATURE:

SIGNED AND DELIVERED in the presence of:	CONTRACTOR	
	Company name	
Witness	Signature of Signing Officer	
	Name and Title (printed)	
	Date	

SECTION 00 41 13 PRICE SUBMISSION FORM

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9. Acknowledgement of Student Safety

The Halifax Regional Centre for Education (HRCE) is directly responsible for the safety of its students and staff. Should contractors be required to work in or on school property while children are present, it is a **mandatory HRCE requirement** that contractors assign the work to employees and/or subcontractors who do not have a criminal record and who are not listed on the Child Abuse Registry. Failure to comply with this requirement may result in immediate contract termination.

The HRCE reserves the right to demand, at any time, during the full term of the project a Criminal Record Check and/or a Child Abuse Registry Check, on any personnel authorized by the Contractor to be on HRCE work/school sites.

By signing below, you are confirming that you understand and will abide by this mandatory HRCE requirement.

	Company name
Witness	Signature of Signing Officer
	Name and Title (printed)
	 Date

END OF SECTION 00 41 13

#4236 Roof Replacement Hammonds Plains Consolidated Elementary

Note: to be completed and forwarded for each Price amendment prior to RFP closing time and date as detailed on the cover sheet of the RFP document and any applicable addenda.

Lump Sum Price Amendment - Section 00 41 13 Price Submission form, Article 6.1. Contract Price

Increase Price by		Decrease Price By	
Amount (excluding HST)	\$	Amount (excluding HST)	\$

It is the Proponent's responsibility to ensure the table above is legible.

Submitted by:	
Company Name (please print as it appears on original RFP file)	
Authorized Proponent's Name (please print as it appears on Price Submission Form)	
Authorized Proponent's Signature	
D. d.	
Date	

SECTION 00 52 00 AGREEMENT BETWEEN OWNER AND CONTRACTOR CCDC 2 - 2020

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(A copy of Section 00 52 00, Standard Construction Contract CCDC 2 – 2020 (5 pages) is available upon request, otherwise, will form part of the contract sets to the successful bidder)

END OF SECTION 00 52 00

SECTION 00 52 13 - DEFINITIONS *CCDC 2 - 2020*

(A copy of section 00 52 13, Standard Construction Contract CCDC 2 – 2020 (2 pages) is available upon request, otherwise, will form part of the contract sets to the successful bidder)

END OF SECTION 00 52 13

SECTION 00 72 13 GENERAL CONDITIONS OF STIPUATED PRICE CONTRACT CCDC2 - 2020

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SECTION 00 72 13 - GENERAL CONDITIONS

OF THE STIPULATED PRICE CONTRACT
CCDC 2 - 2020

(A copy of section 00 72 13, Standard Construction Contract CCDC 2 – 2020 (22 pages) is available upon request, otherwise, will form part of the contract sets to the successful bidder)

END OF SECTION 00 72 13

SECTION 00 73 00 SUPPLEMENTARY GENERAL CONDITIONS CCDC2 - 2020

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SECTION 00 73 00 - SUPPLEMENTARY GENERAL CONDITIONS CCDC2 - 2020

The Canadian Standard Construction Document for Stipulated Price Contract (CCDC 2, 2020 version), Definitions and General Conditions governing same, shall be used by the project. The following Supplementary General Conditions (the "Supplementary Conditions") are intended to Supplement or Amend the General Conditions, and where conflicts occur, the Supplementary Conditions shall take precedence.

Where a General Condition or paragraph of the General Conditions of the Stipulated Price Contract is Deleted by these Supplementary Conditions, the numbering of the remaining General Conditions or paragraphs shall remain unchanged, and the numbering of the Deleted item will be retained, unused.

2 ARTICLE A-5 PAYMENT

Change 5.2.1 to delete the letter "s" from the word "rates".

Change 5.2.1(1) to read: "1% per annum above the prime rate."

<u>Delete</u> 5.2.1(2) in its entirety.

<u>Delete</u> 5.2.2. in its entirety.

DEFINITIONS

Add the following defined term to the Definitions:

Submittals

Submittals are documents or items required by the Contract Documents to be provided by the Contractor, such as:

- 1. Shop Drawings, samples, models, mock-ups to include details or characteristics, before the portion of the Work that they represent can be incorporated into the Work; and
- 2. As-built drawings and manuals to provide instructions to the operation and maintenance of the Work.

3 GC 1.1 CONTRACT DOCUMENTS

Add to the end of subparagraph 1.1.6.2:

1.1.6.2 Except where the Consultant shall be indemnified as a third- party beneficiary as provided in subparagraphs 9.2.7.4, 9.5.3.4 and in 13.1.1.3.

Add subparagraph 1.1.4.1:

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1.1.4.1 Notwithstanding GC 1.1.4, should one or more conflict exist between Contract Documents and any work is done without consulting the Consultant for correction, Additional information, or a finding, the Contractor shall assume full and sole responsibility for any Additional costs incurred related to the conflict(s).

4 GC 2.4 DEFECTIVE WORK

Add new subparagraphs 2.4.1.1 and 2.4.1.2:

- 2.4.1.1 The Contractor shall rectify, in a manner acceptable to the Owner and the Consultant, all defective work and deficiencies throughout the Work, whether or not they are specifically identified by the Consultant.
- 2.4.1.2 The Contractor shall prioritize the correction of any defective work which, in the sole discretion of the Owner, adversely affects the day to day operation of the Owner.

5 PART 3 EXECUTION OF THE WORK

6 GC 3.1 CONTROL OF THE WORK

Add new paragraphs 3.1.3 and 3.1.4:

- 3.1.3 Prior to commencing individual procurement, fabrication, and construction activities, the Contractor shall verify, at the Place of the Work, all relevant measurements and levels necessary for proper and complete fabrication, assembly and installation of the Work and shall further carefully compare such field measurements and conditions with the requirements of the Contract Documents. Where dimensions are not included or contradictions exist, or exact locations are not apparent, the Contractor shall immediately notify the Consultant before proceeding with any part of the affected work.
- 3.1.4 The Contractor shall make all reasonable efforts to ensure that the Work is carried out in a continuous manner. The Contractor shall not knowingly permit Construction Equipment and/or Products to be stored at the Place of Work when they are not being used in connection with or implemented into the Work, except in accordance with paragraph 3.7.7.1.

7 GC 3.6 SUBCONTRACTORS AND SUPPLIERS

Add the following paragraph 3.6.7:

3.6.7 A copy of the agreement between Contractor and any subcontractor(s) shall be provided to the Owner and the Consultant, if so requested.

8 GC 3.7 LABOUR AND PRODUCTS

Add the following paragraph 3.7.4:

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3.7.4 The Contractor is responsible for the safe on-site storage of Products and their protection (including Products supplied by the Owner and other contractors to be installed under the Contract) in such ways as to avoid dangerous conditions or contamination to the Products or other persons or property and in locations at the Place of the Work to the satisfaction of the Owner and the Consultant. The Owner shall provide all relevant information on the Products to be supplied by the Owner.

Add the following paragraph 3.7.5:

3.7.5 The Contractor shall confine Construction Equipment, Temporary Work, storage of Products, waste products and debris, and operations of employees and Subcontractors to limits indicated by laws, ordinances, permits, or the Contract Documents and shall not unreasonably encumber the Place of the Work.

Add the following paragraph 3.7.6:

3.7.6 The Contractor shall maintain the Work in a safe and tidy condition and free from accumulation of waste products and debris.

Add the following paragraphs 3.7.7.1 and 3.7.7.2:

- 3.7.7 .1 The Contractor shall not permit Products or Construction Equipment to be stored at the Place of Work unless:
 - (i) the Products and/or Construction Equipment are used within fourteen (14) days of their arrival at the Place of Work; or
 - (ii) the Owner provides written permission for Products and/or Construction Equipment to be stored at the Place of Work, in which case the Contractor shall comply with the written instructions provided by the Owner in that regard, and said permission may be withdrawn by the Owner upon five (5) business days' notice, in which case the Contractor will be solely responsible for any costs, losses, or damages the Contractor incurs in connection the withdrawal of said permission;
 - .2 Notwithstanding any other provision of the Contract Documents, and subject only to the provisions of any Payment Legislation, the Owner shall not be liable to pay any amount greater than 25% of the actual cost of any Products and/or costs associated with Construction Equipment that is/are stored at the Place of Work and not used within 14 days of their arrival at the Place of Work. The Owner shall only become liable to pay for the remainder of said Products and/or costs of said Construction Equipment after those Products and/or Construction Equipment are actually used at the Place of Work and is/are invoiced in accordance with the terms of the Contract Documents.

Add the following paragraphs 3.7.8.1., 3.7.8.2, 3.7.8.3, and 3.7.8.4:

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3.7.8 The Contactor shall:

- .1 furnish competent and adequate labour and staff, who shall be in attendance at the Place of Work at all times, as necessary, for the proper administration, co-ordination, supervision, and superintendence of the Work;
- .2 organize the procurement of all Products and Construction Equipment so that labour and staff will be available at the requisite times to complete the Work in accordance with GC 3.4 Construction Schedule;
- .3 keep an adequate force of skilled workers at the Place of Work, as necessary, to complete the Work in accordance with all requirements of the Contract Documents and in accordance with GC 3.4 Construction Schedule; and
- .4 provide the Owner, Project Manager, and Consultant, with the names, work addresses, and telephone numbers of the appointed representative of the Contract and other responsible field persons who may be contacted during non-working hours.

9 GC 3.8 SHOP DRAWINGS AND OTHER SUBMITTALS

Add the words "AND OTHER SUBMITTALS" to the Title after SHOP DRAWINGS in GC 3.8.

Add "and Submittals" after each instance of the words "Shop Drawings" in paragraphs 3.8.1, 3.8.2, 3.8.3, 3.8.3.2, 3.8.5, 3.8.6, and 3.8.7.

Add the following paragraph 3.8.1.1:

3.8.1.1 Prior to the first application for payment, the Contractor and the Consultant shall jointly prepare a schedule of the dates for submission and return of Shop Drawings and any Submittals.

Add the following subparagraph 3.8.4.1:

3.8.4.1 The following paragraph shall apply to each Shop Drawing and Submittal reviewed in connection with the project. The Consultant's review conducted pursuant to GC 3.8.3 shall not imply that the Consultant has approved the detailed design inherent in the Shop Drawings or Submittals, responsibility for which shall remain with the Contractor submitting same. The Contractor is responsible for information that pertains solely to fabrication processes or to techniques of construction and installation, and for coordination of the work of all sub trades.

Delete the following words in paragraph 3.8.7:

3.8.7 "with reasonable promptness so as to cause no delay in the performance of the Work" <u>and replace</u> those words with: "within ten (10) working days or such longer period as may be reasonably required".

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Add new GC 3.9 as follows:

10 GC 3.9 CONTRACTOR RESPONSIBILITY FOR WATER TIGHTNESS

GC 3.9 The Drawings and Specifications are not intended to depict each and every condition or detail of construction. As the knowledgeable party in the field, the contractor is in the best position to verify that all construction is completed in a manner which will provide a watertight structure.

The contractor has the sole responsibility for ensuring the watertight integrity of the structure.

Add new GC 3.10 as follows:

11 GC 3.10 PERFORMANCE BY CONTRACTOR

In performing the Work and all its services and obligations under the Contract, the Contractor shall exercise a standard of care, skill and diligence that would normally be provided by an experienced and prudent contractor supplying similar services for similar projects. The Contractor acknowledges and agrees that throughout the Contract, the Contractor's obligations, duties and responsibilities shall be interpreted in accordance with this standard. The Contractor shall exercise the same standard of due care and diligence in respect of any products, personnel, or procedures which it may recommend to the Owner.

The Contractor further represents, covenants and warrants to the Owner that:

- 1. The personnel it assigns to the Project are appropriately experienced;
- 2. It has sufficient staff of qualified and competent personnel to replace its designated supervisor and project manager, subject to the Owner's approval, in the event of death, incapacity, removal or resignation.

12 GC 4.1 CASH ALLOWANCES

Delete paragraph 4.1.7 in its entirety and substitute:

4.1.7 At the commencement of the Work, the Contractor shall prepare for the review and acceptance of the Owner and the Consultant a schedule indicating the times, within the construction schedule referred to in GC 3.4, at which items called for under cash allowances and items that are specified to be purchased by the Owner and installed or hooked up by the Contractor are required to be at the Place of the Work to avoid delaying the progress of the Work.

Add new paragraph 4.1.8:

4.1.8 The *Owner* reserves the right to call, or to have the Contractor call, for competitive bids for portions of the Work, to be paid for from cash allowances.

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13 GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER

<u>Delete</u> section GC 5.1 in its entirety.

14 GC 5.2 APPLICATION FOR PROGRESS PAYMENT

Add to paragraph 5.2.1, ", the Project Manager, " after the word "Owner".

Add the following at the end of paragraph 5.2.2:

5.2.2 Such applications shall be accompanied by one or more of the following documents: a Statutory Declaration, Waiver of Lien, or receipt, stating that the holdback monies claimed have been paid to the particular party or parties so named or referred to therein. The form of the Statutory Declaration, Waiver of Lien, or receipt shall meet the approval of the Consultant.

Add the following paragraph 5.2.9:

5.2.9 The reference to payment for Products delivered to the Place of the Work in Article 5.2.8 shall not be construed as covering day-to-day financing of the Project. Products delivered to the Place of the Work shall be construed to mean major items of equipment or quantities of items that are essential for the expedient conduct of the Work.

Add the following paragraph 5.2.10:

5.2.10 The Contractor shall submit all applications for payment and invoices (with supporting documents as required by the Contract Documents) to the Owner via the following email address: operations-invoices@hrce.ca.

15 GC 5.3 PAYMENT

<u>Supplement</u> paragraph 5.3.1 by <u>adding</u> the following:

5.3.1 A holdback percentage of ten (10) percent (%) shall apply to progress payments. The sworn statement by the Contractor for release of holdback monies shall be in the form of a Statutory Declaration meeting the approval of the Consultant. Amounts as certified by the Consultant to rectify deficiency items, or incomplete portions of individual work items, may be retained by the Owner after Substantial Performance has been obtained, pending Total Performance of the work or other authorization for release by the Consultant.

Amend subparagraph 5.3.1.2 as follows:

5.3.1.2 <u>Delete</u> "28" and replace with "30."

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16 GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK

Add the following paragraph 5.4.7:

5.4.7. Before the Contractor submits his application for Substantial Performance of the Work, all Operations and Maintenance Manual materials shall be submitted in accordance with the Contract Documents. The Certificate of Substantial Performance will not be issued until this requirement is met.

Add the following subparagraph 5.4.8:

5.4.8 After the issuance of a certificate of Substantial Performance of the Work by the Consultant, the Contractor shall promptly submit to the Consultant and the Owner (i) a Certificate from a barrister stating that there are no Builders' Liens filed relating to the Work and (ii) a Clearance Letter from the Workers' Compensation Board.

17 GC 5.5 FINAL PAYMENT

Add the following subparagraphs 5.5.1.1, 5.5.1.2, 5.5.1.3, and 5.5.1.4:

- 5.5.1.1 The Contractor's application for final payment is considered to be valid only when all of the following have been performed:
 - 1. Work has been completed and inspected for compliance with Contract Documents, and the Consultant is satisfied that all the requirements of the Contract have been fulfilled by the Contractor.
 - 2. Defects have been corrected, deficiencies have been completed, and the Place of Work is (i) free of waste products and debris, and (ii) clean and suitable for use or occupancy by the Owner.
 - 3. Equipment and systems have been tested, adjusted and balanced and are fully operational, and written reports as outlined in the Contract Documents have been provided to the Consultant.
 - 4. Certificates required by Utility companies, manufacturer's representative and inspectors have been submitted.
 - 5. Spare parts, maintenance materials, warranties and bonds have been provided.
- 5.5.1.2 If Work is deemed incomplete by the Consultant, the Contractor shall complete outstanding items and request re-inspection.
- 5.5.1.3 If, within sixty (60) days after the issuance by the Consultant of the Certificate of Substantial Performance, the Contractor has not corrected all the deficiencies, the Owner will retain sufficient money to cover the cost of completing said deficiencies, as determined by the Consultant, in

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addition to holding monies retained in accordance with the Contract Documents and subject to the provisions of the Builders' Lien legislation of Nova Scotia.

5.5.1.4 Neither the final certificate nor the payment thereunder, nor any provision in the Contract Documents shall relieve the Contractor from responsibility for faulty material or workmanship which shall appear within a period of one (1) year from the date when Ready-For-Takeover has been attained and the Contractor shall promptly remedy any defects due thereto and pay for any damage to other Work resulting therefrom which shall appear within such period of one year. The Owner shall give notice of observed defects reasonably promptly. This article shall not be deemed to restrict any liability of the Contractor arising out of any law in force in the Province of Nova Scotia.

18 GC 6.2 CHANGE ORDER

Add the following paragraphs 6.2.3, 6.2.4, 6.2.5, 6.2.5, 6.2.6, 6.2.7, and 6.2.8:

- 6.2.3 All contemplated changes in the work shall be issued by the Consultant on a "Contemplated Change Order" form.
- 6.2.4 For lump sum pricing, the Contractor shall, upon receipt of the Contemplated Change Order, submit to the Consultant for approval within seven (7) days, a quotation for changes in the work. The Contractor acknowledges that failure to do so will result in foreseeable delay to the approval and payment of changes in the Work and foreseeable Additional costs to the Owner.
- 6.2.5 Quotation for changes shall be priced in sufficient detail (GC 6.6 applies).
- 6.2.6 Consultant shall, within five (5) working days, notify the Contractor whether estimates are accepted by Owner or further information is required. Acceptance of the Owner shall be indicated in writing, and a signed copy of the Contemplated Change Order form shall be returned to the Contractor.
- 6.2.7 The Contractor shall take reasonable measures to stop Work or minimize the Work in areas affected by or related to the contemplated change(s).
- 6.2.8 For each change in the Work, the Contract Price shall be increased by the net cost of that change in the Work, plus the following mark-ups for all overhead and profits:
 - a. a 10% mark-up on the direct cost of the net change in the Work for change work performed by the Contractor's own forces; and
 - b. a 5% mark-up on the change work performed by Subcontractors.

Credits for reduced or Deleted portions of the Work shall be the actual cost of that Work, without Addition or subtraction of any amount by the Contractor for overhead and profit, and shall be included in the actual cost of the net change.

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19 GC 6.3 CHANGE DIRECTIVE

Delete paragraph 6.3.6.3 of GC 6.3 and replace with:

- 6.3.6.3. The Contractor's percentage fee referred to in paragraphs 6.3.6.1 and 6.3.6.2 shall be calculated and determined applying the following percentage mark-ups for overhead and profit:
 - a. a 10% mark-up on the direct cost of the net change in the Work for change work performed by the Contractor's own forces; and
 - b. a 5% mark-up on the change work performed by Subcontractors.

Add to GC 6.3 the following paragraphs 6.3.14 and 6.3.15:

- 6.3.14 If unit prices are set out in the Contract or subsequently agreed upon, then the unit process alone shall govern in relation to determining the cost of any item for a Change Directive.
- 6.3.15 Payment of the cost of performing work attributable to a Change Directive shall be made only if and to the extent that the Contractor has taken all reasonable steps to mitigate and minimize the impact of the change and the resulting cost.

20 GC 6.4 CONCEALED OR UNKNOWN CONDITIONS

Add new paragraph 6.4.5:

6.4.5 The *Contractor* confirms that, prior to bidding the *Project*, it carefully investigated the Place of the Work and applied to that investigation the degree of care and skill described in paragraph 3.10, given the amount of time provided between the issue of the bid documents and the actual closing of bids, the degree of access provided to the Contractor prior to submission of bid, and the sufficiency and completeness of the information provided by the Owner. The Contractor is not entitled to compensation or to an extension of the Contract Time for anything which could reasonably have been ascertained by the Contractor by such careful investigation undertaken prior to the submission of the bid.

21 GC 6.5 DELAYS

<u>Delete</u> the period at the end of paragraph 6.5.1 and <u>substitute</u> the following words:

6.5.1 ", but excluding any consequential, indirect or special damages."

Add new paragraph 6.5.6:

6.5.6 If the Contractor is delayed in the performance of the Work by any act or omission of the Contractor or anyone employed or engaged by the Contractor directly or indirectly, or by any cause within the Contractor's control, then the Contract Time shall be extended for such reasonable time as the Consultant may decide in consultation with the Contractor. The Owner shall be reimbursed by the

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Contractor for all reasonable costs incurred by the Owner as the result of such delay, including all services required by the Owner from the Consultant as a result of such delay by the Contractor and, in particular, the cost of the Consultant's services during the period between the Ready-for-Takeover date stated in Article A-1 herein (subject to any adjustment in accordance with the Contract Documents) and any later, actual date Ready-for-Takeover is attained by the Contractor.

Add new paragraph 6.5.7:

6.5.7 The Consultant shall not, except by written notice to the Contractor, stop or delay any part of the Work pending decisions or proposed changes.

22 GC6.6 CLAIMS FOR A CHANGE IN CONTRACT PRICE

Add the following to the end of paragraph 6.6.1, deleting the "." after the word "Consultant":

"in no case more than 10 Working Days from the event or series of events giving rise to the claim".

Amend paragraph 6.6.5 as follows:

6.6.5 Add the words "as noted in paragraph 6.6.3" after the words "of the claim" and add the words "and the consultant", at the end.

Add the following paragraph 6.6.7:

6.6.7 If the Contractor claims for an increase in the Contract Price pursuant to this GC 6.6, the amount of any such claim shall be limited to the amount determined in accordance with the methods of quantification set out in paragraphs 6.3.6, 6.3.7, and 6.3.14 of GC 6.3, and the Contractor shall promptly submit a detailed breakdown of all labour, materials, overhead, and profits claimed, including those of Subcontractors. Contemporaneous records are required to support a claim for an increase in the Contract Price, and the Owner retains the right to verify all submitted records through an independent audit. The Owner is not liable for costs not so substantiated. Any markup for overhead and profit on the claimed amount under this GC 6.6 shall be limited to the amounts provided for under GC 6.3.6.3, as Amended by these Supplementary Conditions.

23 GC 8.3 NEGOTIATION, MEDIATION, AND ARBITRATION

<u>Add</u> the following paragraphs 8.3.9, 8.3.10, 8.3.11, 8.3.12, 8.3.13, 8.3.14, and 8.3.15:

- 8.3.9 Within five (5) days of receiving a Notice in Writing requesting arbitration, the party receiving the notice shall give the Consultant a written notice containing:
 - a. a copy of the Notice in Writing requesting arbitration;
 - b. a copy of supplementary conditions 8.2.9 to 8.2.14 of this contract, and;

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- c. a concise description of any claims or issues which the Contractor or the Owner, as the case may be, wishes to raise in relation to the Consultant arising out of the issues in dispute in the arbitration.
- 8.3.10 The Owner and the Contractor agree that the Consultant may elect, within ten (10) days of receipt of the notice under paragraph 8.3.9, to become a full party to the arbitration under paragraph 8.3.6 if the Consultant:
 - a. has a vested or contingent financial interest in the outcome of the arbitration;
 - b. gives the notice of its election to the Owner and the Contractor before the arbitrator is appointed;
 - c. agrees to be a party to the arbitration within the meaning of the rules referred to in paragraph 8.3.6, and;
 - d. agrees to be bound by the arbitral award made in the arbitration.
- 8.3.11 If an election is made under paragraph 8.3.10, the Consultant may participate in the appointment of the arbitrator and, notwithstanding the rules referred to in paragraph 8.3.6, the time period for reaching agreement on the appointment of the arbitrator shall begin to run from the date the respondent receives a copy of the notice of arbitration.
- 8.3.12 The arbitrator in the arbitration in which the Consultant has elected under paragraph 8.3.10 to become a full party may:
 - a. on application of the Owner or the Contractor, determine whether the Consultant has satisfied the requirements of paragraph 8.3.10, and;
 - b. make any procedural order considered necessary to facilitate the <u>Add</u>ition of the Consultant as a party to the arbitration.
- 8.3.13 The provisions of paragraph 8.3.9 shall apply mutatis mutandis to written notice to be given by the Consultant to any sub-consultant.
- 8.3.14 In the event of notice of arbitration given by the Consultant to a sub-consultant, the sub-consultant is not entitled to any election with respect to the proceeding as outlined in 8.3.10, and is deemed to be bound by the arbitration proceeding.
- 8.3.15 An application for arbitration shall be accompanied by security in the amount of \$1,000 to apply to the cost of arbitration. Any claims of excess costs must be submitted in writing to the Consultant within two weeks of completion or alleged completion of the work. No claims shall be accepted after this date and, also, no claims shall be accepted for disputed work unless the Consultant has been notified as specified.

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24 GC 9.1 PROTECTION OF WORK AND PROPERTY

<u>Delete</u> subparagraph 9.1.1.1 in its entirety and <u>substitute</u> the following new paragraph 9.1.1.1:

9.1.1.1 errors or omissions in the Contract Documents which the Contractor could not have discovered applying the standard of care described in paragraph 3.10.

<u>Delete</u> paragraph 9.1.2 in its entirety and <u>substitute</u> the following new paragraph 9.1.2:

9.12 Before commencing any Work, the Contractor shall determine the locations of all underground utilities and structures indicated in the Contract Documents, or that are discoverable by applying to an Inspection of the Place of the Work exercising the degree of care and skill described in paragraph 3.10.

25 GC 9.2 TOXIC AND HAXARDOUS SUBSTANCES

Add in paragraph 9.2.6 after the word "responsible", the following new words:

9.2.6 Or whether any toxic or hazardous substances or materials already at the Place of the Work (and which were then harmless or stored, contained or otherwise dealt with in accordance with legal and regulatory requirements) were dealt with by the Contractor or anyone for whom the Contractor is responsible in a manner which does not comply with legal and regulatory requirements, or which threatens human health and safety or the environment, or material damage to the property of the Owner and others,

Add in subparagraph 9.2.7.4:

9.2.7.4 "and the Consultant" after "Contractor":

Add in paragraph 9.2.8 after the word "responsible", the following new words:

9.2.8 or that any toxic or hazardous substances or materials already at the Place of the Work (and which were then harmless or stored, contained or otherwise dealt with in accordance with legal and regulatory requirements) were dealt with by the Contractor or anyone for whom the Contractor is responsible in a manner which does not comply with legal and regulatory requirement, or which threatens, human health and safety or the environment, or material damage to the property of the Owner or others,

26 GC 9.4 Construction Safety

Add to the end of paragraph 9.4.1:

The Contractor shall be responsible for and ensure the safety of not only the workers, Subcontractors, tradespeople, and Suppliers, and their equipment, but also of all other persons who enter the Place of Work whether during working hours or not, and for that purpose shall erect

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such hoardings and signs and shall employ such safety measures as may be necessary to ensure the safety of such persons.

Delete paragraph 9.4.5 and replace with:

The Contractor shall be responsible for the cost to comply with any public health order(s) affecting the performance of the Work issued pursuant to the Health Protection act (Nova Scotia) or pursuant to any similar legislation, whether Federal or Provincial.

27 GC 9.5 MOULD

Add in subparagraph 9.5.3.4:

9.5.3.4 "and the Consultant" after "Contractor"

28 GC 10.1 TAXES AND DUTIES

Add the following paragraph 10.1.3:

29 GC 10.2 LAWS, NOTICES, PERMITS AND FEES

<u>Delete</u> from the first line of paragraph 10.2.5 the word, "The" and substitute the words:

10.2.5 "Subject to paragraph 3.10, the"

30 GC 10.4 WORKERS' COMPENSATION

Add the following paragraphs 10.4.2, 10.4.3, 10.4.4, and 10.4.5:

- 10.4.2 The contractor is referred to regulations, as applicable, under the Worker's Compensation Act of Nova Scotia.
- 10.4.3 The Contractor's registration with the Worker's Compensation Board shall be continuous during the contract. Should registrations be scheduled to expire during the contract period, the Contractor shall submit a copy of its registration renewal one month prior to the expiration of the current certificate.
- 10.4.4 The Contractor shall furnish evidence of coverage under the Worker's Compensation Act of Nova Scotia and a clearance Certificate providing proof of registration with the Worker's Compensation Board prior to commencement of the Work. (A photocopy of the Contractors registration

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- certificate is acceptable proof). On-going proof of good standing with the Worker's Compensation Board during the term of the contract is required.
- 10.4.5 The Contractor shall also maintain a Certificate of Recognition (COR) from a safety audit company recognized by the Workers' Compensation Board, such as the Nova Scotia Construction Safety Association, for the duration of the Contract. The Contractor shall provide a copy of its COR to the Owner and Consultant prior to commencement of the Work and shall provide a copy of its COR to the Owner or Consultant upon request.

GC 11.1 INSURANCE

<u>Delete</u> sentences <u>and replace with</u> the following in subparagraph 11.1.1.1:

11.1.1.1 <u>Delete</u>: "General liability insurance shall be maintained from the commencement of the Work until one year from the date of Ready-for-Takeover. Liability coverage shall be provided for completed operations hazards from the date of Ready-for-Takeover on an ongoing basis for a period of 6 years following Ready-for-Takeover" and replace with: "General Liability Insurance or Wrap- Up Liability Insurance, (as detailed in the Information to Tenders section under "Insurance Requirements"), shall be maintained from the commencement of the Work until final completion and acceptance of the Work including the making good of faulty work or materials, except that coverage of completed operations liability shall in any event be maintained for twelve (12) months from date of Ready-for-Takeover".

Add the following subparagraphs 11.1.1.1.1, 11.1.1.1.2, and 11.1.1.2.1:

- 11.1.1.1 The general liability insurance to be maintained by the Contractor shall include Commercial General Liability Insurance covering Premises and Operations Liability, elevators, broad form property damage, broad form automobile, owners and contractors protective, blanket contractual, personal injury, completed operations liability contingent employers liability, cross liability clause, non-owned automobile liability, and a 30 day notice of cancellation clause.
- 11.1.1.1.2 All liability insurance policies shall be written in such terms as will fully protect the Contractor and The Halifax Regional Centre for Education as an <u>Add</u>itional named insured.
- 11.1.1.2.1 Liability coverage of not less than ten million dollars (\$10,000,000) is required with regard to operations of owned and non-owned automobiles.

Delete subparagraph 11.1.1.4 in its entirety and insert the following subparagraphs:

11.1.1.4 Broad Form (All Risks) Builders Risk Coverage - Prior to the commencement of any Work the Contractor shall maintain and pay for Broad Form (All Risks) Builders Risk Coverage in the joint names of The HRCE and the Contractor totaling not less than one hundred percent (100%) of the total value of the Work to be done and materials delivered on the site

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(contract value), so that any loss under such policies of insurance will be payable to The HRCE and the Contractor as their respective interests appear. The Builders Risk Insurance shall include all materials related to the Work while in transit or at other locations.

- 11.1.1.4.1 Should a loss be sustained under the Builders Risk Coverage, the Contractor shall act on behalf of The HRCE and Contractor for the purpose of adjusting the amount of such loss with the insurance companies. As soon as such adjustment has been satisfactorily completed, the Contractor shall proceed to repair the damage and complete the Work and shall be entitled to receive from The HRCE in <u>Add</u>ition to any sum due under the Contract, the amount at which The HRCE interest has been appraised in the adjustment made with the insurance companies as referred to above, said amount to be paid to the Contractor as the Work of restoration proceeds. Any loss or damage which may occur shall not affect the rights and obligations of either party under the Contract except as aforesaid and except that the Contractor shall be entitled to a reasonable extension of time for the performance of the Work, as The HRCE may decide.
- 11.1.1.4.2 Upon Ready-for-Takeover being attained, the Contractor's obligation to maintain Builder Risk Insurance shall cease and The HRCE shall assume full responsibility for insuring the whole of the Work against loss or damage.
- "Broad form" property insurance in the joint names of the *Contractor*, the *Owner* and the *Consultant*. The policy shall include as insureds all *Subcontractors*. The Broad form" property insurance shall be provided from the date of commencement of the Work until the earliest of:
- 11.1.4.3.1 Ten (10) Calendar days after Ready-for-Takeover;
- on the commencement of use or occupancy of any part or section of the *Work* unless such use or occupancy is for construction purposes, habitational, office, banking, convenience store under 465 square meter in area, or parking purposes, or for the installation, testing and commissioning or equipment forming part of the *Work*; and
- 11.1.4.3.3 when left unattended for more than thirty (30) consecutive calendar days or when construction activity has ceased for more than thirty (30) consecutive calendar days.

Paragraph 11.1.2 is supplemented as follows:

11.1.2 In addition, within seven (7) working days after notification of award or in any event prior to payment of the first progress claim, the Contractor shall submit certified true copies of each insurance policy to the Owner's Contract Authority. Such copies shall be exclusive of information pertaining to premium or premium bases used by the insurer to determine the cost of the insurance. Prior to the commencement of any work, the Contractor shall file with the Owner a certified copy of each insurance policy and certificate required.

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<u>Delete</u> 11.1.5 in its entirety and replace with the following:

11.1.5 Insurance contracts shall be procured from and the premiums paid to a resident agent of an insurance Company licensed to underwrite insurance in the Province of Nova Scotia.

Add the following paragraph 11.1.9:

11.1.9 All of the insurance policies shall contain a clause stating that no change in terms and conditions or cancellation may at any time be made without the full knowledge and consent of the Owner.

31 GC 11.2 CONTRACT SECURITY

Add the following paragraphs 11.2.1, 11.2.2, and subparagraph 11.2.2.1:

- 11.2.1 The Contractor shall, prior to commencement of the *Work* or within the specified time, provide to the *Owner* and the Consultant the *Contract* security specified in the *Contract Documents*.
- 11.2.2 If the *Contract Documents* require surety bonds to be provided, such bonds shall be issued by a duly licensed surety company authorized to transact the business of suretyship in the province or territory of the *Place of the Work* and shall be maintained in good standing until the fulfillment of the *Contract*. The form of such bonds shall be in accordance with the latest edition of the CCDC approved bond forms, or in such other form as specified by the Owner.
- 11.2.2.1 "Bonds shall be procured from a Nova Scotia resident agent of an insurance company licensed to do business in Nova Scotia and shall be maintained in good standing and held by the Owner until one (1) year after Ready-for-Takeover.

Add the following paragraph 11.2.3:

- 11.2.3 If a Certified Cheque is held as contract security it shall be in an amount equal to ten (10) percent (%) of the Contract Price. The Contract shall supplement the Certified Cheque as necessary to maintain the amount equal to ten (10) percent (%) of the total amount payable (Contract Price plus HST).
 - .1 The Certified Cheque will be deposited at the chartered bank holding The HRCE deposits.
 - .2 The HRCE will return the cheque amount to the Contractor upon satisfactory completion of the contract and duration as specified in the Tender documents.
 - .3 Should Contractor default, total amount payable under the Certified Cheque will be the face value of the cheque plus all accrued interest.
 - .4 Payment for completion of work, due to failure of performance of the Contractor, shall include all reasonable obligations under the Contract, including architectural and engineering costs arising because of the default of the Contractor.

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.5 Payment for labour and materials shall be limited to those who have a direct contract with the Contractor for the provision of labour and/or material (which includes equipment rental).

32 GC 12.3 WARRANTY

In paragraph 12.3.2, delete from the first line the word, "The" and substitute the words:

12.3.2 "Subject to paragraph 3.10, the..."

Add the following paragraph 12.3.7:

12.3.7 Warranty repairs or replacements which arise during warranty period which affect the operation of the system shall be attended to immediately upon notification from the Consultant.

33 GC 13.3 INDEMNIFICATION

Add the following paragraph 13.1.1.3:

13.1.1.3 The Contractor shall indemnify and hold harmless the Consultant, its agents and employees from and against claims, demands, losses, costs, damages, actions, suits, or proceeding by third parties that arise out of, or are attributable to, the Contractor's performance of the Contract, provided such claims are attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property, and caused by negligent acts or omissions of the Contractor or anyone for whose acts the Contractor may be liable, and made in writing within a period of six (6) years from t Ready-for-Takeover, or within such shorter such period as may be prescribed by any limitation statute or the province or territory of the Place of the Work.

END OF SECTION 00 73 00

SECTION 01 11 00 - HRCE SUMMARY OF WORK

1. Project Location & General Scope

- **1.1.** Hammonds Plains Consolidated Elementary, 2180 Hammonds Plains Road, Hammonds Plains, NS.
- **1.2.** Scope: Refer to Section 00 00 15 for scope and schedule information.

2. Contract Documents

2.1. Work will be performed under CCDC-2 contract.

3. General Conditions

3.1. Halifax Regional Centre for Education and CCDC-2 form an integral part of this Project Manual, a copy of which is bound herein.

4. Project Manual

- **4.1.** Sections of the Project Manual are numbered in conformance with the Master List of Section Titles and Numbers, CSC Document 004E, published jointly by Construction Specifications Canada and The Construction Specifications Institute (USA). Sections are arranged in their standard format.
- **4.2.** Sections are written as units of the Work which have been assigned numbers in conformance with the CSC/CSI system. They are arranged in sequence for this Manual. Gaps in the order of numerical sequence do not indicate that a section has been inadvertently omitted from this Manual, but, rather that a Section is not required for completion of the Work.
- **4.3.** Wherever the project location building name occurs in the Contract Documents it shall be taken to mean all work included in the Contract.
- **4.4.** Wherever in the Contract Documents the words "approval", "approved", "direction", "directed", "selection", "selected", "request", "requested", "report", and similar words are used, such approvals, directions, selections, requests and reports shall be given by the HRCE unless specifically stated otherwise.
- **4.5.** Wherever in the Contract Documents the word "provide" is used in any form, it shall mean that the Work concerned shall include both supply and installation of the products required for completion of that part of the Work.
- **4.6.** Wherever in this Project Manual it is specified that Work is to proceed or to meet approval, direction, selection or request of jurisdictional authorities or others, such approval, direction,

selection or request shall be in writing.

5. Errors & Omissions

5.1. If errors or omissions are observed in the Contract Documents, immediately notify the HRCE Procurement Contact in writing of all such errors or omissions. In the event no such notice is given, the Contractor will be held responsible for the results of any such error or omission and the cost of rectifying the same.

6. Division 1

6.1. The provisions of all Sections of **Division 1** shall apply to each Section of this Specification.

7. Wage Rates

7.1. Pay all employees engaged on the Work a wage not less than the minimum wage per hour as set out by the Province of Nova Scotia. For overtime work beyond 48 hours in any one week, pay no employee at a rate of less than one and one-half times the minimum wage per hour noted above. Provide for these wage rates in tendered contract amount.

8. Work Performed Under Separate Contracts

- **8.1.** Work not to be included in the Contract, as noted "NIC" on the Drawings, shall be governed by Article 37, Separate Contracts, of General Conditions of Contract.
- **8.2.** Furniture installation will be carried out by others.
- **8.3.** Computer installation will be carried out by others.

9. Project Schedule

- 9.1. Refer to Section 00 00 15 Description of Work.
- **9.2.** Existing services (mechanical & electrical) will need to be maintained through the renovations.
- **9.3.** During construction, all life safety systems as well as mechanical and electrical systems must be in active, usable condition to permit the school to operate or alternate methods used to ensure the safe operation of the school as directed by HRCE project representative.
- **9.4.** As construction progresses revise the schedule to compensate for any delays or unforeseen activities so as to maintain the contract completion date. Each schedule submission is to be complete with a statement indicating the changes made, the reason they were changed and confirmation that the project completion date will not change. The above schedule information is to be submitted monthly or more often if necessary.

10. Site Progress Records

- **10.1.** Maintain at site a permanent written record of progress of Work. Make the record available at all times with copies provided when requested. Include in record each day:
 - **10.1.1.** Commencement and completion dates of the Work of each trade in each area of Project.
 - **10.1.2.** Attendance of Contractor's and Subcontractor's Work forces at Project and a record of the work they perform.
 - **10.1.3.** Visits to site by representatives of the Owner, Engineer, jurisdictional authorities, Contractor, Subcontractors, and suppliers.
- **10.2.** Maintain a progress chart in approved format. Show on chart proposed Work schedule and progress of Work by Contractor and Subcontractor.

11. Examination

11.1. Site:

- **11.1.1.** Examine site, and ensure that site conditions have been examined, that all are fully informed on all particulars which affect Work thereon and at the place of construction, and in order that construction proceeds competently and expeditiously.
- **11.1.2.** Ensure by examination that all physical features, and working restrictions and limitations which exist are known.

11.2. Previously Completed Work:

- **11.2.1.** Verify dimensions of existing Work in place before construction of Work to be incorporated with it.
- **11.2.2.** Verify that previously executed Work and surfaces are satisfactory for construction, and that performance of subsequent Work will not be adversely affected.
- **11.2.3.** Commencement of Work will constitute acceptance of site conditions and previously executed Work as satisfactory.
- **11.2.4.** Report to Engineer defects in prior Work which will affect quality of subsequent Work, or construction schedule.

11.3. Construction Measurements:

- **11.3.1.** Before commencing installation of Work, verify that its layout is accurate in accordance with intent of Drawings, and that locations, elevations, and clearances to adjacent infrastructure are maintained.
- **11.3.2.** If Work is installed in wrong location, rectify it before other Work concerned proceeds.

12. PROTECTION OF WORK, PROPERTY & PERSONS

- **12.1.** Include in Work necessary methods, materials, and construction to ensure that no damage or harm to Work, materials, property and persons results from the Work of this Contract. Temporary facilities relating to protection are specified in Section 01 52 00.
- **12.2.** Protect, and if damaged make good, adjacent private and public property.
- **12.3.** Keep surfaces, on which finish materials will be applied, free from grease, oil, and other contamination which would be detrimental in any way to the application of finish materials.
- **12.4.** Protect finished surfaces of completed Work from damage by restriction of access or by use of physical means suitable to the material and surface location. Establish with each Subcontractor the suitability of such protection in each case.
- **12.5.** Protect existing underground infrastructure, mechanical, electrical, telephone and similar services from damage. If necessary, relocate active services to ensure that they function continuously in safety and without risk of damage.
- **12.6.** Cap off and remove unused utility services encountered during Work after approval is given by the utilities concerned or jurisdictional authorities, whichever may apply. Relocation, removal, protection and capping of existing utility services shall be performed only by the applicable utility and of other services by licensed mechanics.
- **12.7.** To prevent soiling or damage to finish flooring where pedestrian traffic occurs after the flooring has been installed, install and maintain 6 mil. polyethylene membrane or reinforced kraft paper temporary protection, secured in place and with joints sealed by reinforced pressure sensitive tape.
- **12.8.** Install plywood panels of minimum ¼" thickness over completed finish flooring materials, on which further construction Work is performed by other trades or delivery of products is made, or both. Seal joints between panels with reinforced pressure sensitive tape.
- **12.9.** Prevent spread of dust beyond the construction zone by wetting, or by other approved means, as it accumulates.
- 12.10. The outside work area shall be appropriately demarked and/or surrounded by rigid chain link panels or fencing (at the cost of the contractor) to prevent unauthorized entry to the work area. Any area of roof having work completed is to be covered below with this fencing approximately 10' from the edge of the building. It is to be maintained at all times throughout the project. All waste disposal bins are to be fenced in using the same type of fencing as indicated above during working hours. After working hours, all waste disposal bins shall be located a minimum of 25 feet from any structure. Any windows where the debris chute is located are to be covered. All entrances below the roof area are to have covered scaffolding erected to ensure a safe travel path to a distance of ten feet from edge of building. All workers shall contain their activity to the work site area. Access to the school shall only be allowed as

- planned in coordination with HRCE Operations and the school administration.
- **12.11.** All security on site shall be coordinated through HRCE using an HRCE preferred vendor.
- **12.12.** The contractor is responsible for the cost of security for all project materials.
- **12.13.** If access to the project site is required inside the building, HRCE will provide security personnel at its own cost.
- **12.14.** The contractor shall keep the work site free from accumulated debris caused by the employees or work and shall remove all debris at the end of each work shift. Debris shall not be deposited in HRCE controlled garbage and/or recycling containers.
- 12.15. All waste materials and debris created during demolition and/or construction shall be disposed of in a dumpster provided by the contractor, to be removed at the end of the construction project, using a methodology that is in compliance with the applicable HRM solid waste by laws. Otherwise, the material must be removed and disposed of off-site at the end of each working day. The waste materials may not be stored on site unless they are held in an approved project dumpster no closer than twenty five (25) feet from any structure.
- **12.16.** All temporary structures such as portable washroom facilities, materials storage trailer, work trailer, debris dumpster, vehicles, etc., shall be located a minimum of (25) twenty-five feet from the school building.
- **12.17.** Where applicable, a hot work permit will be required to be completed and approved by HRCE prior to commencement of work and all conditions of the permit must be maintained until completion of hot work. A copy of the hot work permit signed by the contractor representative shall be provided to HRCE upon completion of each hot work session. Contractor must assign a designated fire watch as noted on the permit document who shall remain on site for three hours after completion of each hot work session.
- **12.18.** A school washroom will be designated for use where appropriate. However, protection of the surfaces as indicated above must be maintained. It should also be noted that access to the building during summer months will be limited for security reasons. Contractor is responsible to provide temporary portable washroom facilities for general use of contractor staff.
- **12.19.** Access to Interior of School All interior access is to be scheduled with the PM. This will allow for notice to the school admin., custodial and possible scheduling of a security guard for after hour access.
- **12.20.** Adhesives / Torch Work All adhesive use and torch work must be completed after school hours. Contractor must assign a designated fire watch as indicated above in 12.17.

13. Cleaning

13.1. Ensure that during and after construction the public streets and existing asphalt parking lot are cleaned as required.

14. Salvage

14.1. Unless otherwise specified, salvaged material resulting from construction, and surplus materials and construction debris shall become property of Contractor, who must dispose of it away from Site.

15. Site Limitations

- **15.1.** Since the existing building will be occupied during the Work (in accordance with the Phasing Schedule) the Architect will designate the precise areas on the site which may be utilized for work and storage, and where personnel will be permitted to be present. Refer also to Drawings. Allow for hoarding to secure construction areas from occupied portions of the Building and Site.
- **15.2.** All access to the construction site is to be coordinated with the Project Manager for HRCE and communicated at the pre-construction meeting.
- **15.3.** Any Work carried out in the building is to be carried out during hours approved by the School Administration.
- **15.4.** Any disruption to services within the building must occur during hours approved by School Administration.
- **15.5.** Any Work which may have an adverse effect on the occupancy functions, must have prior approval of the School Administration and **may** require scheduling during off-hours.

16. Security Regulations

16.1. Perform Work in conformance to the security regulations of the building as directed by the Project Manager for HRCE.

17. Project Identification

17.1. No project sign is required on this Project.

18. Owner's Occupancy

- **18.1.** The Owner reserves the right to occupy and use portions of the Project, whether partially or entirely completed, or whether completed on schedule or not, provided such occupancy does not interfere with the Contractor's continuing Work.
 - **18.2.** Partial occupancy or installation by the Owner of his equipment shall not imply acceptance of the Project in whole, or in part, nor shall it imply acknowledgement that terms of the Agreement are fulfilled.

END OF SECTION 01 11 00

SECTION 01 11 25 - PRICES

1. General

- 1.1. Prices included in the Contract shall be complete for the applicable Work, and shall include for each price:
 - 1.1.1. Expenditures for wages and for salaries of workmen, engineers, superintendents, draftsmen, foremen, timekeepers, accountants, expeditors, clerks, watchmen and such other personnel as may be approved, employed directly under the Contractor and while engaged on the applicable Work at the site and expenditures for travelling and HRCE allowances of such employees when required by location of the applicable Work or when covered by trade agreements and when approved; provided, however, that nothing shall be included for wages or salary of the Contractor if an individual, or of any member of the Contractor's firm if the Contractor is a firm or the salary of any officer of the Corporation if the Contractor is a corporation, unless otherwise agreed to in writing.
 - 1.1.2. Expenditures for material used in or required in connection with the construction of the applicable Work including material tests and required by the laws or ordinances of any authority having jurisdiction and not included under Subparagraph .9.
 - 1.1.3. Expenditures for preparation, inspection, delivery, installation and removal of materials, equipment, tools and supplies.
 - 1.1.4. Temporary facilities as required for the applicable Work.
 - 1.1.5. Travelling expenses properly incurred by the Contractor in connection with the inspection and supervision of the applicable Work or in connection with the inspection of materials prepared or in course of preparation for the applicable Work and in expediting their delivery.
 - 1.1.6. Rentals of all equipment whether rented from the Contractor or others, in accordance with approved rental agreements including any approved applicable insurance premiums thereon and expenditures for transportation to and from the site of such equipment, costs of loading and unloading, cost of installation, dismantling and removal thereof and repairs or replacements during its use on the applicable Work, exclusive of any repairs which may be necessary because of defects in the equipment when brought to the Work or appearing within thirty (30) days thereafter.
 - 1.1.7. The cost of all expendable materials, supplies, light, power, heat, water and tools (other than tools customarily provided by tradesmen) less the salvage value thereof at the completion of the applicable Work.
 - 1.1.8. Assessments under the Workmen's Compensation Act, the Unemployment Insurance Act, Canada Pension Act, statutes providing for government hospitalization, vacations

with pay or any similar statutes; or payments on account of usual vacations made by the Contractor to his employees engaged on the applicable Work at the site, to the extent to which such assessments or payments for vacations with pay relate to the Work covered by the specified price; and all sales taxes or other taxes where applicable.

- 1.1.9. The amounts of all Subcontracts related to the specified price.
- 1.1.10. Premiums on all insurance policies and bonds called for under this Contract as related to the specified price.
- 1.1.11. Royalties for the use of any patented invention on the applicable Work.
- 1.1.12. Fees for licenses and permits in connection with the applicable Work. No Building Permit is required for the project.
- 1.1.13. Duties and taxes imposed on the applicable Work.
- 1.1.14. Such other expenditures in connection with the applicable Work as may be approved.
- 1.1.15. Provided always that except with the consent of the Owner, the above items of cost shall be at rates comparable with those prevailing in the locality of the Work.

END OF SECTION 01 11 25

SECTION 01 11 41 - PROJECT COORDINATION

1. Requirements Included

1.1. Each Trade Contractor's responsibilities include the coordination of Work within his own Contract and with the Work of other Contracts.

2. Related Requirements

2.1. Project Meetings: Section 01 31 192.2. Submittals: Section 01 33 00

3. Description

- **3.1.** Coordinate Work on which subsequent Work depends to facilitate mutual progress, and to prevent conflict between parts of the work.
- **3.2.** Ensure that each Section makes known for the information of the Construction Manager and other Sections, the environmental and surface conditions required for the execution of its Work, and the sequence of others Work required installation of its Work.
- **3.3.** Ensure that each Section, commencing Work, and that each Section is assisted in the execution of its preparatory Work by Sections depending upon its preparation.
- **3.4.** Deliver materials supplied by one Section to be installed by another well before the installation begins.
- **3.5.** Sections giving installation information in error, or too late to incorporate in the Work, shall be responsible for having Work done which was thereby additionally made necessary.
- **3.6.** Coordinate warranty conditions of interconnected Work to ensure that full coverage is obtained.
- **3.7.** Remove work installed in error which is unsatisfactory for subsequent Work.

4. Cutting And Patching

- **4.1.** Include under Work of this Section all cutting and patching of asphalt required by the Work.
- **4.2.** Finish new surfaces flush with existing surfaces.
- **4.3.** Cut and patch as required making work fit.
- **4.4.** Make cuts with clean, true, smooth edges.
- **4.5.** Patching of existing or new asphalt shall be performed only by workmen with expertise in that particular trade and who normally perform that Trade.
- **4.6.** Replace, and otherwise make good, damaged or defective Work. If required by the Construction Manager.

- **4.7.** Do not endanger Work or property by cutting, digging, or similar activities. No Section shall cut or alter the Work of another Section unless approved by the Section which has installed it.
- **4.8.** Cut and drill with true smooth edges and to minimum suitable tolerances.
- **4.9.** If required, before cutting, drilling, or sleeving structural load bearing elements, obtain approval of location and methods.
- **4.10.** Cutting, drilling and sleeving of Work shall be done only by the Section which has installed it. The Section requiring drilling and sleeving shall inform the Section performing the Work of the location and other requirements for drilling and sleeving. The Contractor shall directly supervise performance of cutting and patching.
- **4.11.** Cutting and Patching for Holes Required by Mechanical & Electrical Work:
 - **4.11.1.** Include under Work of Mechanical Divisions cutting or provision of holes up to 8" in diameter and related patching.
 - **4.11.2.** Include under Work of this Section holes and other openings required by the work of Mechanical Divisions which are larger than 8" in diameter or least dimension, and chases, bulkheads, furring and required patching. This Section shall be responsible for determination of Work required for holes in excess of 8" diameter or least dimension.
 - **4.11.3.** Include under the Work of Electrical Divisions all cutting or provision of holes and related patching for the Work of that Division.
- **4.12.** Include under Work of this Section all other cutting and patching required by the Work except as described in Clause .11 above.
- **4.13.** Patching or replacement of damaged Work shall be done by the Subcontractor under whose Work it was originally executed, and at the expense of the Subcontractor who caused the damage.
- **4.14.** Make patches invisible in final assembly.

5. Quality Assurance

- **5.1.** Requirements of Regulatory Agencies:
 - **5.1.1.** Make known and coordinate the requirements of jurisdictional authorities, as made explicit by the Contract Documents, and by representatives of such authorities
- **5.2.** Source Quality Control:
 - **5.2.1.** Ensure that Work meets specified requirements
 - **5.2.2.** Schedule, supervise and administer inspection and testing as specified in Section 01 45 00.
- **5.3.** Job Records:
 - **5.3.1.** Maintain job records and ensure that such records are maintained by subcontractors.

Submittals

- **5.4.** Prepare a Project schedule in accordance with Section 01 33 00, and ensure that all subcontractors and suppliers are aware of the details of this schedule, and progressively of their general compliance with the schedule.
- **5.5.** Become aware of the required submittals specified in each Section, and expedite submission of such submittals so as not to hinder the Project Schedule.
- **5.6.** Review submittals and make comments as specified in Section 01 33 00.

6. Job Conditions

- **6.1.** Ensure that Work proceeds under conditions meeting specified environment and job safety requirements
- **6.2.** Ensure that protection of adjacent property and the Work is adequately provided and maintained to meet specified requirements.

7. Product Delivery, Storage And Handling

- **7.1.** Site has limited spaces for storage, only delivery of materials agreed upon by the Construction Manager will be allowed. Comply with Construction Manager's allocations. Any requirement for modifications to the building in order to allow delivery and storage of the materials to complete this work is the responsibility of the contractor.
- **7.2.** Schedule delivery of products & removal of material with Construction Manager.
- **7.3.** Make available areas for storage of products and construction equipment to meet specified requirements, and to ensure a minimum of interference with progress of the Work and relocations.
- **7.4.** Trade Contractor to provide flag persons, traffic signals, barricades and Flares/lights/lanterns as required to perform the Work and to protect the public.
- **7.5.** Material and Waste Deliveries and Removals Must be coordinated to be completed 30 minutes after school dismissal where applicable.

END OF SECTION 01 11 41

SECTION 01 31 19 – PROJECT MEETINGS

1. Pre-Award Meeting

- **1.1.** A Pre-award meeting will be held at which time the following will be addressed:
 - **1.1.1.** Owner and HRCE's functions.
 - **1.1.2.** The Consultant and the Consultant's functions.
 - **1.1.3.** The General Contractor and the General Contractor's functions.
 - **1.1.4.** Documentation requirements from the General Contractor.
 - **1.1.5.** Obligee for Performance and Payment Bonds from Sub-contractors.
 - **1.1.6.** Progress Claims.
 - **1.1.7.** CO's & CCO's.
 - **1.1.8.** Construction Schedule.
 - **1.1.9.** Project Start-up.
 - **1.1.10.** Job Meetings.
 - **1.1.11.** Superintendent General Contractor's Representative.
 - **1.1.12.** Design / Administration authority.
 - **1.1.13.** Owner's Representative.
 - 1.1.14. Special Consultants.
 - **1.1.15.** Quality of Workmanship.
 - **1.1.16.** Accountability.
 - 1.1.17. Harmonized Sales Tax.
 - 1.1.18. Contract Close-out Documentation.

2. Preconstruction Meeting

- **2.1.** Within fifteen (15) days after award of Contract, arrange a meeting between the Consultant, Subcontractors, Project Superintendents, Inspection and Testing Company Representatives, and representatives of others whose coordination is required during construction.
- **2.2.** Discuss at the meeting the means by which full cooperation and coordination of the participants during construction can be achieved.
- **2.3.** Document the responsibilities and necessary activities of the participants during construction as discussed and distribute to each participant.
- **2.4.** Establish procedures for maintenance and completion of Project record drawings specified in Section 01 77 00.
- **2.5.** Review and establish methods of maintaining life safety and egress for the school occupants. Communicate these methods thoroughly with the School Principal.

3. Progress Meeting

3.1. Invite representatives of HRCE, to attend twice monthly site meetings called by the Contractor during the progress of the Work.

- **3.2.** Inform HRCE of each meeting and of proposed agenda a minimum of five (5) days before meeting.
- **3.3.** Submit proposed schedule of site meetings to Engineer and Owner.
- **3.4.** Record, prepare and distribute minutes of each meeting to HRCE and to each other participant within 72 hours of meeting.
- **3.5.** Ensure that all representatives who attend meetings have the authority to conduct business on behalf of firms they represent.
- **3.6.** Details of Progress Meetings to be discussed at the project start-up meeting.

4. Suggested Agendum (Preconstruction Meeting)

- **4.1.** Distribution and discussion of:
 - **4.1.1.** List of major subcontractors and suppliers.
 - **4.1.2.** Projected Construction Schedules.
- **4.2.** Critical work sequencing.
- **4.3.** Major equipment deliveries and priorities.
- **4.4.** Project Coordination:
 - **4.4.1.** Designation of responsible personnel.
- **4.5.** Procedures and Processing of:
 - **4.5.1.** Field decisions
 - **4.5.2.** Proposal requests
 - **4.5.3.** Submittals
 - **4.5.4.** Change orders
 - **4.5.5.** Applications for Payment.
- **4.6.** Adequacy of distribution of Contract Documents.
- **4.7.** Procedures for maintaining Record Documents.
- **4.8.** Use of premises:
 - **4.8.1.** Office, work and storage areas.
 - **4.8.2.** Owner's requirements.
- **4.9.** Construction facilities, controls and construction aids.
- **4.10.** Safety/Tool Box Meetings.
- **4.11.** Security procedures.
- **4.12.** Housekeeping procedures.
- **4.13.** Egress/life safety procedures

5. Suggested Agendum (Progress Meetings)

- **5.1.** Review and approval of minutes of previous meeting.
- **5.2.** Safety meeting minutes.
- **5.3.** Review of work progress since previous meeting.
- **5.4.** Field observations, problems, conflicts.
- **5.5.** Problems which impede Construction Schedule.
- **5.6.** Review of off-site fabrication, delivery Schedules.

- **5.7.** Corrective measures and procedures to regain projected schedules.
- **5.8.** Revisions to Construction Schedules.
- **5.9.** Maintenance of quality standards.
- **5.10.** Pending changes and substitutions and effect on Construction Schedule.
- **5.11.** Other Business.
- **6.** Attend, with representatives of HRCE weekly meetings with the School Administration to review construction activities and concerns of Building Occupants.
- **7.** Quarterly meetings with Contractor and the HRCE / User during Warranty Period including major subtrade contractors.
- **8.** Dates for meetings will be set at time of completion.

END OF SECTION 01 31 19

SECTION 01 33 00 – SUBMITTAL PROCEDURES

1. General Requirements

- **1.1.** Make submittals specified in this Section to Consultant unless otherwise specified, with additional submissions made, in manner that they direct, to other parties involved with construction of the Project as their interests are concerned. These parties are, but shall not be restricted to, consultants, jurisdictional authorities, and Subcontractors whose Work must be coordinated with Work related to Submittals.
- **1.2.** Ensure that submissions are made to allow sufficient time for review without the construction schedule being delayed.

2. Document Submissions Required

- **2.1.** At Commencement of Contract:
 - **2.1.1.** Performance and Payment Bonds.
 - **2.1.2.** Public Liability and Property Damage Insurance Certificates.
 - **2.1.3.** List of Subcontractors by firm name.
 - **2.1.4.** Construction Schedule and other required schedules and estimates.
 - **2.1.5.** Site Specific Safety Plan/Safety Policy.
 - **2.1.6.** Workers' Compensation Board status.

2.2. During Construction:

- **2.2.1.** Weekly progress reports.
- **2.2.2.** Job meeting reports and minutes.
- **2.2.3.** Updated construction schedules.
- **2.2.4.** Shop drawings as required.
- **2.2.5.** Inspection and test reports.
- **2.2.6.** Daily communication of Hot Work Permits as needed.
- **2.3.** Submissions at completion of Work are specified in Section 01 77 00, Contract Closeout.

3. Administrative

- **3.1.** Submit to Consultant submittals listed for review. Submit promptly and in orderly sequence to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for extension of Contract Time no claim for extension by reason of such default will be allowed.
- **3.2.** Do not proceed with Work affected by submittal until review is complete.
- **3.3.** Present shop drawings, product data, samples and in Imperial units.
- **3.4.** Review submittals prior to submission to Consultant. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been

- checked and coordinated with requirements of Work and Contract Documents. Submittals not stamped, signed, dated and identified as to specific project will be returned without being examined and considered rejected.
- **3.5.** Notify Consultant in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- **3.6.** Verify field measurements and affirm that affected adjacent work is coordinated.
- **3.7.** Contractor's responsibility for errors and omissions in submission is not relieved by Consultant's review of submittals.
- **3.8.** Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Consultant's review.
- **3.9.** Keep one review copy of each submission on site.

4. Construction Schedules

- **4.1.** Submit proposed construction schedule at beginning of Project, as specified in Project Documents.
- **4.2.** As construction progresses, submit up-dated construction schedules as specified in Project documents.

5. Shop Drawings And Product Data

- **5.1.** The term "shop drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by Contractor to illustrate details of a portion of Work.
- **5.2.** Submit drawings stamped and signed by professional consultant registered or licensed in Province of Nova Scotia of Canada.
- **5.3.** Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been coordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross references to design drawings and specifications.
- **5.4.** Allow seven (7) days for Consultant's review of each submission. Do not proceed with work involving relevant products until completion of shop drawing review.
- **5.5.** Adjustments made on shop drawings by Consultant are not intended to change Contract Price. If adjustments affect value of work, state such in writing to Consultant prior to proceeding with work
- **5.6.** Make changes in shop drawings as Consultant may require, consistent with Contract Documents. When resubmitting, notify Consultant in writing of revisions other than those requested.

Accompany submission with transmittal letter, in duplicate, containing:

- **5.6.1.** Date
- **5.6.2.** Project title and number
- **5.6.3.** Contractor's name and address
- **5.6.4.** Identification and quantity of each shop drawing, product data and sample.
- **5.6.5.** Other pertinent data.
- **5.7.** Submission to include:
 - **5.7.1.** Date and revision dates.
 - **5.7.2.** Project title and number.
 - **5.7.3.** Name and address of:
 - **5.7.3.1.** Subcontractor.
 - **5.7.3.2.** Supplier.
 - **5.7.3.3.** Manufacturer.
 - **5.7.4.** Contractor's stamp, signed by Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
 - **5.7.5.** Details of appropriate portions of Work as applicable:
 - **5.7.5.1.** Fabrication.
 - **5.7.5.2.** Layout, showing dimensions, including identified field dimensions, and clearances.
 - **5.7.5.3.** Setting or erection details.
 - **5.7.5.4.** Capacities.
 - **5.7.5.5.** Performance characteristics.
 - **5.7.5.6.** Standards.
 - **5.7.5.7.** Relationship to adjacent work.
- **5.8.** After Consultant's review, distribute copies.
- **5.9.** Submit for review one electronic copy in PDF file format of shop drawings for each requirement requested in specification Sections and as Consultant may reasonably request.
- **5.10.** Submit electronic copies of product data sheets for brochures for requirements requested in specification Sections and as requested by Consultant where shop drawings will not be prepared due to standardized manufacture of product.
- **5.11.** Submit electronic copies of test reports for requirements requested in specification Sections and as requested by Consultant.
 - **5.11.1.** Report signed by authorized official of testing laboratory that material, product or system identical to material, product or system to be provided has been tested in accord with specified requirements.
 - **5.11.2.** Testing must have been within three (3) years of date of contract award for project.

- **5.12.** Documentation of testing and verification actions taken by manufacturer's representative to confirm compliance with manufacturer's standards or instructions.
- **5.13.** Delete information not applicable to project.
- **5.14.** Supplement standard information to provide details applicable to project.
 - **5.14.1.** If upon review by Consultant, no errors or omissions are discovered or if only minor corrections are made, copies will be returned, and fabrication and installation of work may proceed. If shop drawings are rejected, noted copy will be returned and resubmission of corrected shop drawings, through same procedure indicated above, must be performed before fabrication and installation of work may proceed.
 - **5.14.2.** Without restricting generality of foregoing, Contractor is responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for coordination of work of sub-trades.
- **5.15.** Shop Drawings are specified for submission under the following:

Section 03 20 00 Concrete Reinforcement

Section 05 12 23 Structural Steel

Section 05 31 00 Steel Deck

Section 05 50 00 Metal Fabrications

Section 06 10 11 Rough Carpentry

Section 06 40 00 Architectural Woodwork

Section 07 41 43 Aluminum Composite Panels

Section 07 46 13 Preformed Metal Siding

Section 07 52 16 Modified Bitumen Roofing System & Flashing

Section 07 84 00 Fire Stopping and Smoke Seals

Section 08 11 14 Steel Doors & Frames

Section 08 11 16 Aluminum Doors & Frames

Section 08 14 10 Wood Doors

Section 08 50 50 Aluminum Windows

Section 08 62 11 Vinyl Windows

Section 08 71 10 Door Hardware

Section 09 22 16 Non-Load Bearing Wall Framing

Section 09 30 13 Ceramic Tile

Section 10 11 13 Communication Boards

Section 10 11 23 Tackboards

Section 10 14 53 Traffic Signs

Section 10 28 10 Toilet & Bath Accessories

Section 10 50 00 Miscellaneous Specialties

Section 11 40 11 Food Services Catalogued & Custom Equipment

Section 12 21 13 Horizontal Blinds

Section 12 21 16 Roller Shades

Section 14 42 13 Wheelchair Platform Lift

All pre-manufactured Mechanical & Electrical items as noted in Mechanical & Electrical Divisions.

6. SAMPLES

- **6.1.** Submit for review samples in duplicate as requested in respective specification Sections, as requested by the Consultant. Label samples with origin and intended use.
- **6.2.** Deliver samples prepaid to Consultant's business address.
- **6.3.** Notify Consultant in writing, at time of submission of deviations in samples from requirements of Contract Documents.
- **6.4.** Adjustments made on samples by Consultant are not intended to change.
- **6.5.** Make changes in samples which Consultant may require, consistent with Contract Documents.
- **6.6.** Reviewed and accepted samples will become standard of workmanship and material against which installed work will be verified.
- **6.7.** Samples are specified for submission under the following Sections:

Section 07 41 43 Aluminum Composite Panels

Section 07 46 13 Preformed Metal Siding

Section 08 14 10 Wood Doors

Section 08 50 50 Aluminum Windows

Section 09 30 13 Ceramic Tile

Section 09 51 13 Acoustical Ceiling Units

Section 09 65 19 Resilient Tile Flooring

Section 12 21 13 Horizontal Blinds

Section 12 21 16 Roller Shades

Refer to Mechanical & Electrical Divisions for sample requirements in those Trades.

7. Record Drawings

- **7.1.** Record, as the Work progresses, changes and deviations in the location of Work concealed by the finished Work, and such other approved changes that occur during progress of Work, to ensure that an accurate record is provided for future maintenance and alterations.
- **7.2.** White prints will be provided by the HRCE for use in preparing record drawings. Record changes in the Work on these prints in red ink.
- **7.3.** Dimension location of concealed Work in reference to building walls, and elevation in reference to floor elevation. Indicate at which point dimension is taken to conceal Work. Dimension all terminations and offsets of runs of concealed work.
- **7.4.** Record work constructed differently than shown on Contract Documents, changes in the work caused by site conditions, by Owner, Consultant, Contractor and Subcontractor originated changes, and by site instructions, supplementary instructions, field orders, change orders, addenda, correspondence and directions of jurisdictional authorities.

- **7.5.** Record location of mechanical and electrical services, piping, valves, conduits, pull boxes, junction boxes and similar work not clearly in view, and position of which is required for maintenance, alteration work and future additions. Do not conceal critical work until its location has been recorded.
- **7.6.** Identify record drawings as a "Project Record Copy". Maintain in good condition, do not use for construction purposes and make available to Consultant at all times.
- **7.7.** Submit record drawings at completion of Work. Final acceptance of the Work will be predicated on receipt and approval of record drawings.

8. Extra Stock

- **8.1.** Supply extra stock at completion of Project as specified in other Sections of the Project Manual.
- **8.2.** Deliver extra stock as directed by the Architect to location he designates.
- **8.3.** Extra stock is specified to be supplied in the following Sections:

Section 09 30 13 Ceramic Tile

Section 09 51 13 Acoustical Ceiling Units

Section 09 65 19 Resilient Tile Flooring

Section 09 91 23 Painting

Refer to Mechanical & Electrical Divisions for Extra Stock requirements in those Trades.

1. Maintenance Manual & Operating Instructions

- **1.1.** Submit three (3) copies of Maintenance Manual with application for completion certificate.
- **1.2.** Include in Maintenance Manual one (1) copy of each final approved shop drawing issued for Project on which have been recorded changes made during fabrication and installation caused by unforeseen conditions.
- **1.3.** Submit extended guarantees together in one (1) report binder.
- **1.4.** The Manuals shall:
 - **1.4.1.** Consist of a hard-cover, black, vinyl-covered, loose-leaf, letter-size binder.
 - **1.4.2.** Have a title sheet, or sheets preceding data on which shall be recorded Project name, Project number, date, list of contents, and Contractor's and Subcontractors' names.
 - **1.4.3.** Be organized into applicable Sections of Work with each Section separated by hard paper dividers with plastic covered tabs marked by Section.
 - **1.4.4.** Contain only typed or printed information and notes, and neatly drafted drawings.
 - **1.4.5.** Contain maintenance and operating instructions on all building, and mechanical and electrical equipment.
 - **1.4.6.** Contain maintenance instructions as specified in various Sections.
 - **1.4.7.** Contain brochures and parts lists on all equipment.
 - **1.4.8.** Contain sources of supply for all proprietary products used in the Work.

- **1.4.9.** Contain lists of supply sources for maintenance of all equipment in Project of which more detailed information is not included above.
- **1.4.10.** Contain finished hardware schedule.
- **1.4.11.** Contain charts, diagrams and reports specified in Mechanical & Electrical Divisions.

2. Extended Warranties

- **2.1.** Submit the extended warranties listed in this Article and as specified in each applicable Section of this Project Manual.
- **2.2.** Extended warranties shall commence on termination of the standard one-year warranty granted in this Contract.
- **2.3.** Submit each extended warranty on a standard Form of Warranty, a sample of which is included in this Section.
- **2.4.** Secure each extended Warranty by a Maintenance Bond in an amount indicated.

3. Inspection Laboratory Reports

- **3.1.** Submit copies of inspection and test reports obtained by the Contractor and Subcontractors for their Work or for Jurisdictional Authorities, if requested by Consultant.
- **3.2.** Submit reports in accordance with requirements specified in Section 01 41 00.

4. Documentation On Suppliers & Manufacturers

4.1. Provide information under headings identifying the following: Associated Technical Section, Manufacturer, Supplier, Contact Name, and Phone Numbers.

SAMPLE FORM OF WARRANTY FOLLOWS THIS PAGE

Sample Form for Warranty

Date	
Client	
Project	
Warranty	
	(title of work)
providing of nec written notificat work required so to defects cause Warranty shall	ertake to warrant all materials supplied and installed under our Contracts and include the essary materials and labour to cover the result of faulty materials or workmanship. Upon ion from Client or the Architect that the above work is defective any repair or replacement hall be to the Architect's satisfaction at no cost to the Client. This Warranty shall not apply ed by the work of others, maltreatment of materials, negligence or Acts of God. This remain in effect for the total period from the acceptance of the Work to (date), the date of completion or the beneficial use by the Owner.
Signature	
Authorized Sig	ning Officer
Name of Firm	
Address	

END OF SECTION 01 33 00

SECTION 01 35 13 – APPENDIX A - SPECIAL PROJECT PROCEDURES

1. Introduction

- 1.1. School construction, renovation and maintenance projects are scheduled every year as a normal and necessary course of business by operations departments in each Nova Scotia Centre for Education. Building modifications, repairs and additions/demolitions to buildings may impact the school environment without appropriate controls. With increased controls based primarily on the CSA standards implementation, proper scheduling and clear communication on adequate controls can be put into place to eliminate/minimize the impact to all occupants.
- 1.2. Projects of this nature may generate varying levels of dusts, noises and odors. It is possible, unknown/unforeseeable environmental contaminants, such as spills, mold, fumes, lead or asbestos exposure maybe identified.
- 1.3. To successfully complete work within the school environment, it is necessary to plan and implement appropriate containment and control strategies. This document is developed to provide a minimum standard for contaminant controls for various types of projects in schools. These standards are in addition to and should complement all legislated protocols for working with regulated materials such as asbestos, lead paints, PCB's etc.
- **1.4.** Executing a successful project will depend primarily on clear, concise communication. This may involve a number of parties (Project Manager, Operations staff, School Administration and Health & Safety staff and Joint Occupational Health & Safety Committee).

2. Communication Plan

- 2.1. The most critical element of any project management plan is effective communication between all stakeholders. Communication between the Operations project manager/supervisor, the contractor and school administrators before the start of a project is very important. This meeting is meant to explain the scope, schedule and risk assessment for the project. The meeting will also help establish clear expectations when managing planned and unplanned exposure risks associated with contaminant controls.
- **2.2.** The communication plan shall include:
 - **2.2.1.** A description of potential contaminants, which may include but is not limited to:
 - **2.2.1.1.** Particulates (dirt, concrete/silica, steel, fiberglass, wood dust, ash, cellulose, etc.)
 - **2.2.1.2.** Moisture: external water infiltration, internal system leaks (domestic water, sanitary, storm, sprinkler)
 - **2.2.1.3.** Noise from equipment/tool operation,
 - **2.2.1.4.** Fumes/odors from equipment exhaust, boiler exhaust, septic waste, chemical/adhesives, etc.

- **2.2.1.5.** Hazardous materials including, asbestos, PCB, mercury, lead, fuel oil, fungi/mould, etc.
- **2.2.1.6.** Excessive heat/cold
- **2.2.2.** A description of the control measure which may include but not be limited to:
 - **2.2.2.1.** Isolation within an enclosure (water, noise, hazardous materials)
 - **2.2.2.2.** Ventilation and filtration
 - **2.2.2.3.** Dehumidifiers/blowers (moisture)
 - **2.2.2.4.** Personal protective equipment
 - **2.2.2.5.** Schedule outside or inside school hours
 - **2.2.2.6.** Sound dampeners
 - **2.2.2.7.** Monitoring
 - **2.2.2.8.** Security
- **2.2.3.** Other Hazards created by the work, including but not limited to fire safety and the need to alter fire safety plans.
- **2.3.** For small routine work orders the communication plan may only involve one tradesperson and the school principal or designate. This communication is equally as important for management of contaminant controls.

3. Contaminant Control Management

- **3.1.** Regardless of the contaminant or control measure used, the following procedures shall apply for every project:
 - **3.1.1.** Every project, including all routine work requests, shall be assessed, as per this document, by appropriate personnel for potential contaminant risk.
 - **3.1.2.** Clear lines of communication must be established between project personnel, site supervisor or project manager and the school administration.
 - **3.1.3.** Control strategies as per this document, shall be, communicated to workers as well as the site JOHSC and implemented prior to starting the work.
 - **3.1.4.** Where isolation is used as a control, all entry points must be clearly posted to describe the purpose of the enclosure and limitations of access.
 - **3.1.5.** During the execution of the project, the control measures must be regularly inspected and maintained before the start of each work shift, and throughout the shift as required.
 - **3.1.6.** A process for stop work and remediation orders must be established to ensure the project manager; site supervisor and school administrator have a means to cease project operations when a contaminant control breach may impact the school environment. Breached control measures must be reported immediately to HRCE project manager upon discovery. He/she will be responsible to communicate to the school principal or designate. Work shall be stopped immediately until the control measures are re-established.

3.1.7. Access to the controlled work site is only permitted by authorized personnel. The project supervisor or designate shall determine appropriate personal protective equipment (PPE) and necessary worker orientation.

4. Particulate Control

- **4.1.** Exposure to minimal levels of dust is a normal condition in most outdoor and indoor environments and is typically controlled inside a building through building ventilation, filtration and routine housekeeping measures. However, as noted, construction projects generally create elevated dust levels in work areas, whether inside or outside of a building.
- **4.2.** Operational Services Managers must ensure maintenance staff and contracted service providers implement dust control measures appropriate for the type and scope of work being performed. This will include assessing the type and amount of dust being created as well as the location of the work being conducted.
 - **4.2.1.** Interior Construction Projects:
 - **4.2.2.** Construction projects may be described as projects that may include window replacement, wall creation/demolition, etc.
- **4.3.** As a minimum for these types of construction projects, all interior entry points into a construction zone must be effectively sealed. The barrier must prevent contaminants from the work area to be distributed to other areas of the school. Appropriate signage must be posted to indicate only authorized persons are permitted access.
- **4.4.** Entrance design could range from a two flap plastic tarp door to a fully constructed sealed entry door with negative hepa-filtered ventilation on the construction side of the barrier.
- **4.5.** Exterior Construction Projects:
 - **4.5.1.** Exterior work shall be performed so as not to affect the safety of building occupants. It will also provide controls to avoid impact to adjacent properties. Depending up on the results identified in the risk assessment, at a minimum consideration must be given to prevent dust from entering into the school environment. This may be controlled through isolation, dampening application, closing building AHU and window/door openings.

5. Noise Control

- **5.1.** Hearing plays an essential role in communication, speech and language development and learning within a school environment. During construction the contractor is responsible for ensuring acceptable noise levels will be adhered to for the HRCE staff and students within the building. Noise related to a project may prove to be very distracting for staff and students. To minimize distractions and interruptions in student learning the following are important to consider:
 - **5.1.1.** Contractors are responsible to ensure appropriate noise control measures are taken
 - **5.1.2.** "No work" periods may need to be incorporated into construction schedules

- **5.1.3.** Work causing a noise disruption may need to take place during unoccupied times and/or during pre-determined acceptable times of the day (i.e. before and after class times)
- **5.1.4.** It may be necessary for the School Administrator to make a request to the HRCE Project Manager or the Contractor to exclude undertaking certain noisy activities during particular periods and/or activities.

6. Moisture Control

- **6.1.** Moisture levels are to be controlled during construction and maintenance activities. Moisture levels above normal may impact the air in the room and/or building and may also penetrate building materials giving the potential to lead to mould growth.
- **6.2.** Certain activities (i.e. tape and mud of drywall, painting, pressure washing, concrete cutting with water or other water-based dust-suppression) introduce high amounts of moisture into the room environment and ventilation and or drying is required to control local moisture.
- **6.3.** An enclosure properly set-up to contain other contaminants will similarly contain/control high levels of airborne moisture. A wet-vac should be available on-site for activities which have a risk of water spillage of more than 5 gallons at any instance.
- **6.4.** Standing and or stagnate water must be avoided on construction sites, for a number of reasons, including, but not limited to; insects breed in these bodies of water, the water may give off odours, it is a nuisance to walk through, and it may be an ice hazard in cold weather.
- 6.5. It is important that all water leaks and flooding are reported immediately to the HRCE's project manager and building supervisor. Where works to existing "plumbing" is to occur the water lines (potable, heating, fire suppression) must be isolated and drained (de- energized/de-pressurized) following Lock Out Tag Out procedure. Adequate supplies such as buckets and absorbents should be present when drains are not available to drain a line.
- **6.6.** When an interruption to the water supply, potable or service, is to occur then the "owner's representative" and building supervisor should be notified 24 hours in advance. Bottled water provision may be required.
- 6.7. Materials used in the construction and or maintenance activities are to be stored in dry areas. The introduction of materials to the activities with moisture levels above the acceptable (XXX%)CNBC states for wood, on dry weight basis, a max of 19%, I can't find info on drywall but assume it is much lower range is prohibited as these materials are highly susceptible to colonization by mould spores.

7. Fumes

- **7.1.** Fumes may be produced on a project site for a variety of reasons such as use of motorized equipment, off gassing of sealants, adhesives and finish products, cutting/torching processes, exposure of sanitary systems, process ignition gases such as propane and acetylene, proximity of project temporary washrooms, radon, etc.
- **7.2.** The impact of fumes on occupants may range from discomfort to health risk, to life safety risk.

- **7.3.** The project manager or supervisor must ensure that all potential fume sources are identified and remedial or control measures included in the scope of work by the contractor.
- **7.4.** Monitoring equipment may be required to determine for example radon exposure or safety of confined space access.

8. Activity Assessment

- **8.1.** Activities that may produce contaminants which require control may be considered as low, medium and high impact.
- **8.2.** Low impact activities include routine maintenance and repairs that may create localized dust or odors or brief periods of noise which are not considered harmful to occupants but may be a nuisance which requires minimal control. These may include activities such as opening ceiling tiles or gyproc walls, replacing a plumbing fixture, paint touch ups, drilling through a wall, etc.
- **8.3.** Medium impact activities include larger repair jobs or longer duration projects that will create more wide spread levels of contaminant which must be controlled to prevent exposure to building occupants. Boiler cleaning, ceiling replacement, long periods of hammer drilling, etc.
- **8.4.** High impact activities include large demolition and construction projects, or jobs with exposure to contaminants that are a risk to health or life safety such as asbestos remediation, mould abatement, lead paint clean up, etc.

9. Hazard Assessment

- **9.1.** A hazardous assessment is required to be completed for each job to ensure hazards are identified and corresponding controls are implemented. Depending upon the circumstances at the site it may be necessary to upgrade and/or add other precautions.
- **9.2.** Determine the most appropriate hazard classification and apply the corresponding protocols. The attached hazard assessment identifies the minimum controls that must be in place during the corresponding activities. Depending on the specific circumstances at a site further controls may be required. When the hazards are deemed to be in the C or F category the form including specific controls must be submitted to the HRCE for review, prior to commencing work. The contractor may still be required to complete their own hazard assessment of the job/work.

10. Contaminant Controls Procedure for initiating work for all Contaminant Controls:

10.1. Contaminant Control I

- **10.1.1.** The tradesperson or project manager for the HRCE will discuss the details, including the scope and any impacts of the job/project with the principal.
- **10.1.2.** Ensure fire exiting requirements and life safety systems are addressed or adequate mitigating plans are implemented for the building, construction staff and building occupants.
- **10.1.3.** Presence of lead paint or ACM's (Asbestos Containing Materials) must be determined prior to the start of any job. Specific protocols or Codes of Practice may apply.

- **10.1.4.** Consideration will be given for work that is anticipated to generate significant noise, odours or VOC's (Volatile Organic Compounds) and this will be scheduled outside of school hours or during times when the noise will not disrupt occupant activities. This will require coordination with the Principal.
- **10.1.5.** The work area shall be isolated where possible. This may be achieved at varying levels, by closing doors and opening outside windows for ventilation or by installing appropriate hoarding and negative pressure units to ensure contaminants are not circulated throughout the school causing further health and safety concerns.
- **10.1.6.** Dust shall be minimized during the activity. When drilling, sanding or cutting is taking place, wetting the area may be necessary to reduce dust.
- **10.1.7.** Good housekeeping practices shall be maintained at all times on the work site. Bag and remove dust and debris from the building as soon as possible.
- **10.1.8.** Possible environmental impacts shall be managed and minimized. If work uncovers environmental contaminants or suspected contaminants such as oil spills (current or historic) or potentially friable asbestos materials (check the school asbestos audit) that may be disturbed, this information shall be brought to the attention of the HRCE's employee responsible for the project so that appropriate actions can be taken.
- **10.1.9.** When the activity is completed the work area shall be inspected and cleaned. Dust and debris shall be removed from the area and all efforts will be made to return items to their pre-maintenance activity location.
- **10.1.10.** The Principal shall be notified that the work is completed.
- **10.2.** Contaminant Control II All Contaminant Control I measures shall apply, as well as;
 - **10.2.1.** Cover furniture, bookshelves and teaching materials with plastic sheets.
 - **10.2.2.** Water misting while performing dust generating activities may be required.
 - **10.2.3.** Seal un-used doors. Seal wall penetrations, electrical outlets, or any other source of air leaks in the construction area.
 - **10.2.4.** Seal exhaust air vents in construction area and open the windows. If possible shut down air handling system in the area for duration of project.
 - **10.2.5.** A walk out mat at exterior of exit door to trap dust may be required.
- **10.3.** Contaminant Control III All Contaminant Control I and II measures shall apply, as well as;
 - **10.3.1.** Install an impermeable dust barrier from the true ceiling to the floor consisting of two layers of 6 mil fire retardant polyethylene or solid wall and sealed door. The wall shall remain in place until the job is finished and the clean-up is completed.
 - **10.3.2.** Seal all wall penetrations.
 - **10.3.3.** Seal off all return and supply air handling ducts and close all windows.
 - **10.3.4.** Turn off the air handling system in the area of construction.
 - **10.3.5.** Maintain negative air pressure in the construction area using HEPA filter equipped exhaust ventilation. The pressure differential between the project area of contamination and the building's occupied areas shall be demonstrable by a means approved by the HRCE employee responsible for the project.

- **10.3.6.** Ensure that the air is exhausted directly outside and away from intake vents.
- **10.3.7.** Vacuum all horizontal surfaces including drop cloths with a hepa vacuum.
- **10.3.8.** Remove drop cloths.
- **10.3.9.** Vacuum again all horizontal surfaces with HEPA Vacuum.
- 10.3.10. Restore ventilation.
- 10.3.11. Remove enclosure and equipment.

10.4. Control IV: (External Work)

- **10.4.1.** External work may impact building interior or occupants.
- **10.4.2.** To reduce the impact to building interior or occupants, it may be necessary to contain the work area from impacting building interior. This may include closing or opening windows, tarping ceilings to capture debris or water, temporary relocation of occupants or ventilation controls.
- **10.4.3.** The job supervisor shall consider weather conditions and forecast to reduce the effect of any weather impacts to the building materials or building occupants.
- **10.4.4.** It may be necessary to use protective tarps and ground cover sheets below equipment and work areas to contain building debris such as paint chips, materials, dust or oil from equipment.
- **10.4.5.** When the job is completed and the tarps have been lifted, inspect the ground around the job for debris and clean as necessary.

Fire Protection

- **10.5.** Type V: General Fire Protection
 - **10.5.1.** Ensure fire exiting requirements and life safety systems are addressed or adequate mitigating plans are implemented for the building, construction staff and building occupants. Staff must be aware of temporary modifications to fire safety plans.
 - **10.5.2.** MSDSs for all materials to be used must be reviewed and available on site.
 - **10.5.3.** Construction materials stored outside must be a minimum distance of ten feet from the building and be in a secured area.
 - **10.5.4.** Flammable or Combustible liquids must be stored as per Fire Code requirements. All flammable and combustible liquids or materials must be kept in a secure area at all times.
- **10.6.** Control VI: Fire Protection (minor hot work) All Contaminant Control V shall apply as well as;
 - **10.6.1.** Notify the Principal that a risk of fire has increased and the area in which the hot work will occur.
 - **10.6.2.** Refer and implement the HRCE's hot work permit process. At a minimum the following should be considered;
 - **10.6.2.1.** Sweep the work area and remove all unnecessary materials in the vicinity; particularly all combustible and flammable materials and liquids shall be removed from the area (35 feet).
 - **10.6.2.2.** Have an appropriate size fire extinguisher available.

- **10.6.2.3.** Inspect the work location for areas (such as a hole in the wall) where hot material or sparks could fall and smolder and close them off so that any hot debris can only fall within your field of view.
- **10.6.2.4.** If it is possible that the flame will go past the object being welded or soldered and excessively heat a flammable or combustible material, then either protect that material with a non-flammable material or wet the material and keep it wetted during the use of heat or grinding.
- **10.6.2.5.** Remain in the area while the joint and/or heated materials cool to room temperature (ambient) while checking for the smell or appearance of smoke in the area.
- **10.6.2.6.** Stay in the area for at least 2 hours and then re-inspect for any smell or appearance of smoke.
- **10.6.2.7.** Ask another staff person to inspect the area for the smell or appearance of smoke. Record who you asked to do the final inspection.
- **10.6.3.** Type VII: Fire Protection (hot work w fire watch) All Contaminant Control V and VI shall apply as well as;
- **10.6.4.** Notify the Principal that a risk of fire has increased and the area in which the hot work will occur. If any life safety system components (sprinkler, detectors, fire alarms) are not function, hot work should not proceed until these systems are functioning unless fire watch procedures for life systems are followed. See Activation of Fire Watch for Life Safety Systems checklist. Appendix...XX
- **10.6.5.** Refer and implement the HRCE's hot work permit process. At a minimum the following should be considered;
 - **10.6.5.1.** Cover all floor openings with fire stop material. Seal duct work openings with metal covers or blankets and close all doors.
 - **10.6.5.2.** Ensure that there are no potentially explosive atmospheres in the area.
 - **10.6.5.3.** Hot work on vessels, pressure tanks or boilers, use only contractors who are qualified by nationally or internationally recognized boiler and pressure vessel code.
 - **10.6.5.4.** Notify the local fire department of the type of work and the work schedule.
 - 10.6.5.5. Before hot work is started, designate one employee responsible to complete the fire watch: while work is in progress, during lunch breaks and other breaks and for one hour after all flames are extinguished for the day and monitor the area for an additional two hours. After three hours after the last flame has been extinguished, have a second employee do a final survey of the area for smells or evidence of smoldering or fire and record the inspection.

APPENDIX Fire Watch Activation Checklist

- 1. Documentation (identify locations to be checked on an hourly basis, provide contact information for relevant HRCE staff and outside agencies) HRCE provided template to be used for documentation.
- 2. Procedure reviewed with Custodian or individual responsible for fire watch. Any high-risk areas shall be identified to be highlighted on the documentation page and checked during the rounds.
- 3. Staff working in the building have been notified of the Fire Watch and that they are responsible to monitor areas for signs of fire or smoke and have been reminded of required actions to take according to the school fire safety plan.
- 4. Staff responsible for fire watch have been trained in how to use a fire extinguisher. (PASS)
- 5. Staff responsible for the fire watch have a means of communication (cell phone or walkie-talkies)
- 6. Staff responsible for the fire watch are aware of the procedure for initiating fire alarm and what systems are functioning. i.e. systems (sprinklers, alarm panel or if school has monitoring company or if calling 911 is required)
- 7. The School Insurance Program (SIP) Emergency Information Line has been notified 1-902-448-2840
- 8. All relevant information has been documented in the school's fire books. Including date, time and reason for fire watch.

Fire Watch De-Activation Checklist

- 1. Document the date, time and actions taken to remedy the deficiency requiring the fire watch.
- 2. School Insurance Program (SIP) has been notified.
- 3. Copy of the Fire Watch documentation is kept in the fire book and the original is sent to the HRCE Project Representative.

END OF SECTION 01 35 13

SECTION 01 35 29 - OCCUPATIONAL HEALTH & SAFETY REQUIREMENTS

1. References

1.1. CSA S269.1-1975 Falsework for Construction Purposes.

2. CONSTRUCTION SAFETY MEASURES

- **2.1.** Observe construction safety measures of:
 - **2.1.1.** National Building Code 2020, Part 8
 - **2.1.2.** National Fire Code of Canada
 - **2.1.3.** Provincial Government, including but not limited to the:
 - **2.1.3.1.** Occupational Health & Safety Act revised Statutes of Nova Scotia 1996, Chapter 7 and regulations.
 - **2.1.3.2.** Workers' Compensation Act
 - **2.1.3.3.** Fire Protection Act
 - 2.1.3.4. Dangerous Goods Transportation Act
- **2.2.** In case of conflict or discrepancy the more stringent requirement shall apply.
- **2.3.** Ensure that employees working on this specific project have met training requirements as legislated by the Nova Scotia Occupational Health & Safety Act and its regulations.
- **2.4.** Where reference is made to jurisdictional authorities, it shall mean all authorities who have within their constituted powers the right to enforce the laws of the place of the building.

3. Equipment & Tools

3.1. Each user of equipment or tools shall be responsible to examine for sufficiency before use. Make equipment and tools safe if necessary.

4. WHMIS

- **4.1.** Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of hazardous materials; and regarding labelling and provision of material safety data sheets.
- **4.2.** Have a copy of WHMIS data sheets available at the workplace on delivery of materials.

5. Hazardous Material

- **5.1.** Should material resembling hazardous materials other than those identified with the Contract Documents, including but not limited to spray or trowel applied asbestos, be encountered in course of work; stop work immediately. Do not proceed until written instructions have been received from Consultant.
- **5.2.** Where work entails use, storage, or disposal of toxic or hazardous materials, chemicals and or explosives, or otherwise creates a hazard to life, safety, health, or the environment; work shall be in accordance with the Jurisdictional Authority.

6. Site Cleaning

- **6.1.** Except where special permission is obtained, maintain clear access on public sidewalks and roads.
- **6.2.** Maintain walks and roads clear of construction materials and debris, including excavated material. Clean walks and roads as frequently as required to ensure that they are cleared of materials, debris and excavated material.

7. Fire Safety Requirements

- **7.1.** Enforce fire protection methods, good housekeeping and adherence to local and Underwriter's fire regulations including, but not limited to, Fire Protection Act and the Provincial Building Code Act. Provide UL approved fire extinguishers, and other fire- fighting services and equipment, except where more explicit requirements are specified as the responsibility of individual Sections.
- **7.2.** Smoking is not permitted on school property.
- **7.3.** Advise Fire Chief in the area of Work of any work that would impede fire apparatus response, including but not limited to violation of minimum overhead clearance prescribed by the fire chief, erecting of barricades and digging of trenches and in areas where work is being done.
- **7.4.** Ensure nothing subverts the integrity of fire protection provided for the building structure.

8. Reporting Fires

- **8.1.** Know the location of the nearest fire alarm box and telephone, including the emergency phone number.
- **8.2.** Report immediately all fire incidents to the fire department as follows:
 - **8.2.1.** Activate nearest fire alarm box, or
 - **8.2.2.** Telephone local fire department
 - **8.2.3.** Where fire alarm box is exterior to building, the person activating the fire alarm box shall remain at the box to direct Fire Department to scene of the fire.
 - **8.2.4.** When reporting a fire by telephone, give location of fire, name or number of building and be prepared to verify the location.

9. Safety Document Submission

- **9.1.** Ensure Safety Document Submission applies to Work of this specific project and site.
- **9.2.** Submit two (2) copies of Project Safety Document at the Pre-Construction Meeting. Do not commence Work nor deliver material on-site prior to submission.
- **9.3.** Include in Safety Document submission specific information detailing the methods and procedures to be implemented ensuring adherence to the acts, regulations, codes and policies specified in this section and to:
 - **9.3.1.** Ensure the Health & Safety of persons at or near the Work; including, but not limited to, the Public.
 - **9.3.2.** Ensure the measures and procedures of the regulatory agencies specified are carried out.
 - **9.3.3.** Ensure every employee, self-employed person and employer performing Work under this contract complies with the regulatory agencies specified.
 - **9.3.4.** Where changes to the methods and procedures in the execution of work change submitted safety methods and procedures, modify submitted Safety Documentation and submit modifications, in writing to the Consultant and Owner prior to implementation.

10. Safety Document Organization

- **10.1.** Organize information in the form of an instructional manual as follows:
 - **10.1.1.** Place in binders of commercial quality, accommodating 8½" x 11" paper size.
 - **10.1.2.** Cover: Identify binder with typed or printed title 'Project Safety Document' and list the title of project.
 - **10.1.3.** Provide tabbed fly leaf for each separate heading, with typed heading on tab.
 - **10.1.4.** Where drawings are within the safety document, provide with reinforced punched binder tab. Bind in with text; fold in larger drawings to size of text pages.
 - **10.1.5.** Arrange content under Safety Document headings specified herein.

11. Safety Document Headings

- **11.1.** Employee Safety Training
 - **11.1.1.** Place, under this heading, a statement indicating employees working on this specific project have met specified training requirements, if required.
- **11.2.** Company Safety Policy
 - **11.2.1.** Place, under this heading, information pertaining to the company's policy and commitment to Occupational Health & Safety, including the responsibilities of management, supervisors and workers.
- 11.3. Company Safety Rules in General Terms
 - **11.3.1.** Place, under this heading, information of a general, global nature, applying to every work environment where the company has staff and pertaining to rules directing compliance to policy. For example state company safety rules with respect to use of hard hats, safety glasses, safety foot ware, CSA approval on such items, and use of alcohol or non-prescription drugs.
- **11.4.** Hazard Assessment
 - **11.4.1.** Place, under this heading, information identifying possible hazards specific to this project and identify safe methods and procedures for the execution of work to ensure safety in the workplace.
 - **11.4.2.** Arrange contents of this heading by technical section number of the project manual.
- **11.5.** Emergency Action Plan
 - **11.5.1.** Place, under this heading, information detailing action to be taken in the event of various emergencies.
 - **11.5.2.** Arrange content under the following sub-headings:
 - **11.5.2.1.** First Aid
 - 11.5.2.1.1. Include information concerning establishment of a First Aid Station, related supplies, staff awareness of location and staff training in First Aid Care of Casualties.
 - **11.5.2.2.** Contact of Emergency Support Groups:
 - 11.5.2.2.1. Include relative information including phone location for emergency use, the emergency telephone numbers and their location for the various organizations which must be contacted in case of an emergency, and staff training in procedures.

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Cessation of Work:

- 11.5.2.2.2. Include relative information how work cessation during emergencies is handled and communicated to persons present on site.
- **11.6.** Joint Occupational Health & Safety Committee/Representative:
 - **11.6.1.** Place under this heading information detailing membership and terms of reference.

OCCUPATIONAL HEALTH & SAFETY SUMMARY FOLLOWS THIS PAGE

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Occupational Health & Safety Summary (to be submitted with each monthly Progress estimate)

The following information summarizes Occupational Health & Safety activities on the project conducted by the Contractor during the month and includes activities of Subcontractors. Activities include all matters prescribed by the Occupational Health & Safety Act and Regulations and the submitted Occupational Health & Safety Document for the Project.

India	cate the applicable # number below:	List new Contractors on Site below:				
#	new contractors on site,					
#	orientations					
#	toolbox talks					
#	safety meetings					
#	Joint Occupational Health					
and	Safety Committee meetings					
#	hazard assessments					
#	formal written inspections					
#	warnings issued to employees or subco	ntractors				
#	other, explain					
The	Contractor certifies that the above noted a	activity list is accurate and that during the month:				
Chec	ck					
	All activities on the Project were found	to be in compliance with the Occupational Health &	k Safety			
	Act and Regulations					
	Some activities on the Project were not found to be in compliance with the Occupational Health &					
ш	Safety Act and Regulations but were adequately corrected in an appropriate time frame. Explain					
Prep	ared by	Certified by				
(Contractor Project Manager)		(Contractor Senior Management)				

END OF SECTION 01 35 29

SECTION 01 37 00 - SCHEDULE OF VALUES

1. Related Documents

1.1. General Conditions of Contract.

2. General

- **2.1.** Submit to the Architect, and Owner, Schedule of Values, within twenty (20) days after signing Agreement.
- **2.2.** Use Schedule of Values as basis for Contractor's Progress Claim.

3. Form Of Submittal

3.1. Form included at end of this Section.

4. Preparing Schedule Of Values

- **4.1.** Itemize separate line item cost for work required.
- **4.2.** Round off figures to nearest ten (10) dollars.
- **4.3.** The sum of all values listed in the schedule shall equal the total contract sum.

5. Review And Submittal

- **5.1.** After review by Architect and Owner, revise and resubmit Schedule as directed.
- **5.2.** The form shall be completed and supported by such evidence as to its correctness as the Architect may reasonably direct.

SCHEDULE OF VALUES

Project Name	#4236 - Roof Replacement — Hammonds Plains Consolidated Elementary		
Architect			
Contractor			
Date			

Halifax Regional Centre for Education – Schedule of Values					
Contract Item	Percentage	Dollar Value			
Mobilization, bonding / insurance, safety, set up safety fencing and roof access	5				
Materials - approved materials delivered to site . Approved area by HRCE	35				
Removal of existing roof system and install to new vapour barrier	15				
Install Roof System	30				
Metal Flashings	10				
Close out documentation including copy of warranty	5				
Total	100 %				

SECTION 01 41 00 - REGULATORY AGENCIES

1. Jurisdictional Authorities

1.1. Where reference is made to jurisdictional authorities, it shall mean all authorities who have within their constituted powers the right to enforce the laws of the place of building.

2. Definitions

2.1. The "Constructor" named in the Construction Safety Act, Chapter 52, Revised Statutes of Nova Scotia, as amended by 1972, Chapter 25; and Construction Safety Regulations, pursuant to Chapter 52 R.S.N.S., including any amendments, shall mean the "Contractor" for the Work performed under this Specification.

3. Fire Prevention, Safety & Protection

- **3.1.** General Construction Safety Measures:
 - **3.1.1.** Observe safety measures of the
 - **3.1.1.1.** National Building Code 2020, Part 8.
 - **3.1.1.2.** National Fire Code of Canada.
 - **3.1.1.3.** Provincial Government, including but not limited to the Occupational Health & Safety Act Revised Statutes of Nova Scotia 1996, Chapter 320, and the Construction Safety & Industrial Safety Regulations made pursuant to the Occupational Health and Safety Act, 1996.
 - **3.1.1.4.** Workers'/Workmen's Compensation Board.
- **3.1.2.** In case of conflict or discrepancy the more stringent requirement shall apply.
 - **3.1.3.** Maintain clear emergency exit paths for personnel.
- **3.2.** Except where special permission is obtained, maintain clear access on public sidewalks and roads.
- **3.3.** Maintain walks and roads clear of construction materials and debris, including excavated materials. Clean walks and roads as frequently as required to ensure that they are cleared of materials, debris and excavated materials.
- **3.4.** WHMIS:
 - **3.4.1.** Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of hazardous materials; and regarding labelling and provision of material safety data sheets acceptable to Labour Canada and Health & Welfare Canada.
 - **3.4.2.** Have a copy of WHMIS data sheets available at the workplace on delivery of materials.

Blockage of Roadways

3.5. Advise Fire Chief of any work that would impede fire apparatus response. This includes violation of minimum overhead clearance, as prescribed by fire chief, erecting of barricades and the digging of trenches.

4. Smoking Precautions

4.1. Observe, at all times, smoking regulations.

5. Rubbish And Waste Materials

- **5.1.** Rubbish and waste materials are to be kept to a minimum.
- **5.2.** The burning of rubbish is prohibited.

6. Flammable And Combustible Liquids

- **6.1.** The handling, storage and use of flammable and combustible liquids are to be governed by the current National Fire Code of Canada.
- **6.2.** Flammable and combustible liquids such as gasoline, kerosene and naphtha will be kept for ready use in quantities not exceeding 45 litres provided they are stored in approved safety cans bearing the Underwriter's Laboratory of Canada or Factory Mutual seal of approval. Storage of quantities of flammable and combustible liquids exceeding 45 litres for work purposes, requires the permission of the Fire Chief.
- **6.3.** Transfer of flammable and combustible liquids is prohibited within buildings or jetties.
- **6.4.** Transfer of flammable and combustible liquids will not be carried out in the vicinity of open flames or any type of heat-producing devices.
- **6.5.** Flammable liquids having a flash point below 38°C such as naphtha or gasoline will not be used as solvents or cleaning agents.
- **6.6.** Flammable and combustible waste liquids, for disposal, will be stored in approved containers located in a safe ventilated area. Quantities are to be kept to a minimum and the Fire Department is to be notified when disposal is required.

7. Hazardous Substances

- **7.1.** Work entailing the use of toxic or hazardous materials, chemicals and/or explosives, otherwise creates a hazard to life, safety or health, will be in accordance with the National Fire Code of Canada.
- **7.2.** Where flammable liquids, such as lacquers or urethanes are to be used, proper ventilation will be assured and all sources of ignition are to be eliminated. The Fire Chief is to be informed prior to and at the cessation of such work.

8. Questions and/or Clarification

8.1. Direct any questions or clarification on Fire Safety in addition to above requirements to Fire Chief.

9. Fire Inspection

- **9.1.** Site inspections by Fire Chief will be coordinated through HRCE Project Manager.
- **9.2.** Allow Fire Chief unrestricted access to the work site.
- **9.3.** Co-operate with the Fire Chief during routine fire safety inspection of the Work site.
- **9.4.** Immediately remedy all unsafe fire situations observed by the Fire Chief.

10. Reference Standards

- **10.1.** Where edition date is not specified, consider that references to manufacturer's and, published codes, standards and specifications are made to the latest edition, (revision) approved by the issuing organization, current at the date of this Specification.
- **10.2.** Reference standards and specifications are quoted in this Specification to establish minimum standards. Work which in quality exceeds these minimum standards shall be considered to conform.
- **10.3.** Should the Contract Documents conflict with specified reference standards or specifications the General Conditions of the Contract shall govern.
- **10.4.** Where reference is made to manufacturer's directions, instructions or specifications they shall include full information on storing, handling, preparing, mixing, installing, erecting, applying, or other matters concerning the materials pertinent to their use and their relationship to materials with which they are incorporated.
- **10.5.** Have a copy of each code, standard and specification, and manufacturer's directions, instructions and specifications, to which reference is made in this Specification, always available at construction site.
- **10.6.** Standards, specifications, associations, and regulatory bodies are generally referred to throughout the specifications by their abbreviated designations:

CSA

AA The Aluminum Association

AISI American Iron and Steel Institute

ANSI American National Standards Institute

ARI Air Conditioning & Refrigeration Institute

ASTM American Society for Testing & Materials

CCA Canadian Construction Association

CGSB Canadian General Standards Board

Canadian Standards Association

NSDTIR Department of Transportation & Infrastructure Renewal, Province of

Nova Scotia

IAO Insurers Advisory Organization

NBC National Building Code

NFPA National Fire Protection Association
CANS Construction Association of Nova Scotia
ULC Underwriters Laboratories of Canada

WHMIS Workplace Hazardous Materials Information System

END OF SECTION 01 41 00

SECTION 01 45 00 - QUALITY CONTROL

1. Section Includes

- **1.1.** Inspection and testing, administrative and enforcement requirements
- **1.2.** Tests and mix designs.
- **1.3.** Mock-ups.
- **1.4.** Mill tests.
- **1.5.** Equipment and system adjust and balance.
- **1.6.** Verification by affidavits and certificates that specified products meet requirements of reference standards: In applicable Sections of the Specification.
- **1.7.** Testing, balancing and adjusting of equipment: In applicable Mechanical and Electrical Sections of the Specification.
- **1.8.** Cutting & Patching: Section 01 11 41.

2. Related Sections

- **2.1.** Section 01 33 00 Submittal Procedures: Submission of samples to confirm product quality.
- **2.2.** Section 01 61 00 Material & Equipment: Material and workmanship quality reference standards.
- **2.3.** Section 01 77 00 Contract Closeout.

3. REVIEW OF WORK

- **3.1.** The Owner shall have access to the Work. If part of the Work is in preparation at locations other than the Place of the Work, access shall be given to such work whenever it is in progress.
- **3.2.** Give timely notice to the Owner's Representative, requesting review of the Work as indicated in the Contract Documents.
- **3.3.** If the Contractor covers or permits to be covered Work that has been designated for review by the Owner before such is made, uncover such Work, have the review satisfactorily completed and make good such Work at no extra cost to Owner.

4. Inspection, Special Tests, Approvals

4.1. Engage the services of appropriate inspection testing agencies ensuring the Work meets codes, acts and regulations, and lows in force at the place of Work. Include such costs in the Contract Price.

- **4.2.** Give timely notice requesting inspection to those required to provide inspections, special tests, or approvals, where Work is designated, by the Owner's instructions or the law of the place of Work, for special tests.
- **4.3.** If the Contractor covers or permits to be covered Work that has been designated for special tests, inspections or approvals before such is made, uncover such Work, have the inspections or tests satisfactorily completed and make good such Work at no extra cost to the Owner.
- **4.4.** The Owner may order any part of the Work to be examined if the Work is suspected to be not in accordance with the Contract Documents. If, upon examination such Work is found not in accordance with the Contract Documents, correct such Work and pay the cost of examination and correction. If such Work is found in accordance with the Contractor Documents, the Owner shall pay the cost of examination and replacement.

5. Independent Inspection Agencies

- **5.1.** Independent Inspection/Testing Agencies may be engaged by the Owner for the purpose of inspecting and/or testing portions of Work. Cost of such services will be borne by the Owner.
- **5.2.** Provide access to the Work, and equipment required for executing inspection and testing by the appointed agencies.
- **5.3.** Employment of inspection/testing agencies does not relax the Contractor's responsibility to perform Work, or carry out his own inspections and testing in accordance with the Contract Documents.
- **5.4.** If defects are revealed during inspection and/or testing, the appointed agency will request additional inspection and/or testing to ascertain full degree of defect. Correct defect and irregularities as advised by Owner at no cost to the Owner. Pay costs for retesting and reinspection.

6. Access To Work

- **6.1.** Allow inspection/testing agencies access to the Work, off site manufacturing and fabrication plants.
- **6.2.** Co-operate to provide reasonable facilities for such access.

7. Procedures

- **7.1.** Notify the appropriate agency and Owner in advance of the requirement for tests, in order that attendance arrangements can be made.
- **7.2.** Submit samples and/or materials required for testing, at specifically requested in specifications. Submit with reasonable promptness and in an orderly sequence so as not to cause delay in the Work.
- **7.3.** Provide labour and facilities to obtain and handle samples and materials on site. Provide sufficient space to store and cure test samples.

8. Rejected Work

- **8.1.** Remove defective Work, whether the result of poor workmanship, use of defective products or damage and whether incorporated in the Work or not, which has been rejected, including (but not limited to) defective Work rejected by the Owner as failing to conform to the Contract Documents. Replace or re-execute in accordance with the Contract Documents.
- **8.2.** Make good other Contractor's work damaged by such removals or replacements promptly.
- **8.3.** If in the opinion of the Owner, it is not expedient to correct defective Work or Work not performed in accordance with the Contract Documents, the Owner may deduct from the Contract Price the difference in value between the Work performed and that called for by the Contract Documents, the amount of which shall be determined by the Owner.

9. Reports

- **9.1.** Submit four (4) copies of inspection and test reports to the Owner.
- **9.2.** Provide copies to Contractor's Consultant and Subcontractor of Work being inspected or tested.

10. Tests and Mix Designs

- **10.1.** Furnish test results and mix designs as may be requested.
- **10.2.** The cost of tests and mix designs beyond those called for in the Contract Documents or beyond those required by law of the Place of Work shall be appraised by the Owner and may be authorized as recoverable.

11. Mock-Up

- **11.1.** Prepare mock-up for Work for each finish in the Work and other work specifically requested in the specifications. Include for Work of all Sections required to provide mock-ups.
- **11.2.** Construct in all locations as specified in specific Section.
- **11.3.** Prepare mock-up for Owner's review with reasonable promptness and in an orderly sequence, so as not to cause any delay in the Work.
- **11.4.** Failure to prepare mock-up in ample time is not considered sufficient reason for an extension of Contract Time and no claim for extension by reason of such default will be allowed.
- **11.5.** If requested the Owner will assist in preparing a schedule fixing the dates for preparation.
- **11.6.** Mock-ups may remain as part of the Work, unless specified otherwise in the Contract Documents.

12. Mill Tests

12.1. Submit mill test certificates as may be requested.

13. Equipment And Systems

- **13.1.** Submit adjustment and balancing reports for mechanical, electrical and building equipment systems.
- **13.2.** Refer to Contract Documents for definitive requirements.

END OF SECTION 01 45 00

SECTION 01 52 00 – CONSTRUCTION & TEMPORARY FACILITIES

1. General

- 1.1. Include in the Work construction and temporary facilities required as construction aids or by jurisdictional authorities or as otherwise specified. Install to meet needs of construction as Work progresses. Maintain construction and temporary facilities during use, relocate them as required by the Work, remove them at completion of need and make good adjacent Work and property affected by their installation.
- 1.2. Include in the Work construction and temporary facilities to provide for construction safety such as: fences, barricades, bracing, supports, storage, sanitation and first aid facilities, fire protection, stand pipes, electrical supply, construction equipment with its supports and guards, stairs, ramps, platforms, runways, ladders, scaffolds, guardrails, temporary flooring, rubbish chutes, and walkway, morality and guard lights, and as otherwise required of the Constructor by the Construction Safety Act, of the Province of Nova Scotia, as well as all other applicable regulations or jurisdictional authorities.
- 1.3. Construct temporary Work of new materials unless use of second-hand materials is approved.
- 1.4. Ensure that structural, mechanical, and electrical characteristics of temporary facilities are suitable and adequate for use intended. Be responsible that no harm is caused to persons and property by failure of temporary facilities because of placing, location, stability, protection, structural sufficiency, removal, or any other cause.
- 1.5. Locate temporary facilities as directed and coordinated with School Administration and HRCE.
- 1.6. Relocate construction and temporary facilities as required by the Progress of the Work, and remove at completion of Work.
- 1.7. Do not permit construction personnel to use new washroom and toilet facilities.
- 1.8. Interior work zones to be complete with temporary negative air ventilation units to be functioning at all times to control dust migration to occupied areas.
- 1.9. Refer also to HRCE Policies & Guidelines contained in Appendix A of Section 01 35 13.

2. Services

- 2.1. Temporary Electric Power:
 - 2.1.1. The Contractor will provide a source of electric power for all construction purposes.
 - 2.1.2. Coordinate with the Building Operator locations of power sources and arrange to connect under his direction.
 - 2.1.3. Install electric service distribution conductors and necessary components. Determine anticipated demand which will be placed on service during normal peak periods and obtain approval on this basis before making installation. Supply power of characteristics required by the Work. Install a power centre for miscellaneous tools

and equipment for each major building floor area with distribution box, a minimum of four 20 amp grounded outlets, and circuit breaker protection for each outlet. Make connections available to any part of the Work within distance of a 100'-0" extension.

2.2. Temporary Lighting:

- 2.2.1. Install lighting for
 - 2.2.1.1. emergency evacuation, safety and security throughout the Project at intensity levels required by jurisdictional authorities.
 - 2.2.1.2. performance of Work throughout Work areas as required, evenly distributed, and at intensities to ensure that proper installations and applications are achieved.
 - 2.2.1.3. performance of finishing Work in areas as required, evenly distributed and of an intensity of at least 15 foot candles.
- 2.2.2. Permanent fluorescent lighting may be used during construction, provided that fixtures, lamps and lenses are completely cleaned. Incandescent sources may be used during construction to the extent of 20% of the total. Electrical Division Contractor to provide 20% spare lamps to the Owner for replacement purposes.
- 2.3. Temporary Sanitary Facilities:
 - 2.3.1. Provide sanitary facilities for persons on the Work site. Facilities in areas of the building are only to be used under extraordinary circumstances and with prior approval.
- 2.4. Maintain fire protection as required by jurisdictional authorities. The Contractor is responsible for de-activating and re-activating Fire Alarm zones as required by the Work of the Contract and to maintain protection in the existing building.

3. Construction Aids

- 3.1. Hoists & Cranes:
 - 3.1.1. Select, operate and maintain hoisting equipment and cranes as may be required. Operate such equipment only by qualified hoist or crane operators. Make hoist available for Work of each Section.

3.2. Building Enclosure:

3.2.1. Include in Work temporary enclosure for building as required to protect it, in its entirety or in its parts, against the elements, to maintain environmental conditions

required for Work. Design enclosures to withstand wind pressures required for the building by jurisdictional authorities. Erect enclosures to allow complete accessibility for installation of materials during the time enclosures remain in place.

3.3. Scaffolding:

3.3.1. Each user of scaffolding shall be responsible for its examination and testing for sufficiency before using it. He shall make it secure if necessary, or shall notify the Contractor in writing that he will not commence work until it is made secure; otherwise he will be held responsible for accidents due to its insufficiency.

4. Barriers

- 4.1. Install barricades for traffic control, and to prevent damaging traffic over exterior and interior finished areas, as well as safety barricades and otherwise, as may be required.
- 4.2. Construct hoardings and walkways as required by HRCE or jurisdictional authorities.

5. Protection

- **5.1.** Protect roofs and podiums by substantial temporary construction to ensure that no damage occurs. Provide protection by materials of sufficient thickness to prevent all damage to structure and finish, and to waterproofing qualities of membranes, whenever each of these individual components are exposed. Damage shall include harm resulting from all construction work, such as falling objects, wheel and foot traffic, failure to remove debris, operation of machinery and equipment, and scaffolding and hoisting operations. Positively secure protection to prevent displacement from any cause.
- **5.2.** Box with wood or otherwise protect from damage, by continuing construction, finished sills, jambs, corners, and the like.

END OF SECTION 01 52 00

SECTION 01 61 00 - MATERIAL & EQUIPMENT

1. General

- **1.1.** Products refer to materials, manufactured components and assemblies, fixtures and equipment incorporated in the Work.
- **1.2.** Use only products of Canadian manufacture unless such products are not manufactured in Canada, are specified otherwise, or are not competitive.
- **1.3.** Products for use in the Project and on which the Tender was based shall be in production at that time, with a precise model and shop drawings available for viewing.
- **1.4.** Where equivalent products are specified, or where alternatives are proposed under "substitution of products", these products claimed by the Contractor as equivalent shall be comparable in construction, type, function, quality, performance, and, where applicable, in appearance, as approved. Where specified equivalents are used in the tendered bulk sum price for the Work, they shall be subject to final approval.
- **1.5.** Incorporate products in the Work in strict accordance with manufacturers' directions unless specified otherwise.
- **1.6.** Products delivered to the Project site for incorporation in the Work shall be considered the property of the Owner. Maintain protection and security of products stored on the site after payment has been made for them.
- **1.7.** Do not install permanently incorporated labels, trademarks and nameplates, in visible locations unless required for operating instructions or by jurisdictional authorities.

2. Specified Products

- **2.1.** Products specified by manufacturer's name, brand name or catalogue reference shall be the basis of the bid and shall be supplied for the Work without exception in any detail, subject to allowable substitutions as specified.
- **2.2.** Where several proprietary products are specified, any one of the several will be acceptable.
- 2.3. For products specified by reference standards, the onus shall be on the supplier to establish that such products meet reference standard requirements. The Architect may require affidavits from the supplier, as specified in Section 01 33 00, or inspection and testing at the expense of the supplier, or both, to prove compliance. Products exceeding minimum requirements established by reference standards will be accepted for the Work if such products are compatible with and harmless to Work with which they are incorporated.

3. Substitution Of Products During Progress Of Work

- **3.1.** Products substituted for those specified or approved, or both, shall be permitted only if the listed product cannot be delivered to maintain construction schedule and if the delay is caused by conditions beyond the Contractor's control.
- **3.2.** Obtain approval for substitutions. Application for approval of substitutions shall be made only by Contractor. Process proposals for substituted Work in accordance with procedures established for changes in the Work.
- **3.3.** Submit, with request for substitution, documentary evidence that substituted products are equal to, or superior to, approved products, and a comparison of price and delivery factors for both specified or approved products, and proposed substitute.
- **3.4.** Ensure that substituted products can be both physically and dimensionally incorporated in the Work with no loss of intended function, performance, space or construction time, and that spare parts and service are readily available. The Contractor shall be responsible for additional installation costs, including architectural and engineering fees, required by incorporation of substituted products, and for adaptations made otherwise necessary to ensure that above requirements are satisfied.

4. Product Handling

- **4.1.** Manufacture, pack, ship, deliver and store products so that no damage occurs to structural qualities and finish appearance, nor in any other way detrimental to their function or appearance, or both.
- **4.2.** Ensure that products, while transported, stored or installed, are not exposed to an environment which would increase their moisture content beyond the maximum specified.
- **4.3.** Schedule early delivery of products to enable Work to be executed without delay. Before delivery, arrange for receiving at site.
- **4.4.** Deliver package products, and store until use, in original unopened wrapping or containers, with manufacturer's seals and labels intact.
- **4.5.** Label packaged products to describe contents, quantity and other information as specified.
- **4.6.** Product handling requirements may be repeated and additional requirements specified, in other Sections.

5. Storage & Protection

- **5.1.** Coordinate material delivery to ensure that areas within or on building are available to receive them.
- **5.2.** Store manufactured products in accordance with manufacturer's instructions, when such instructions are attached to products or submitted by him.
- **5.3.** Store finished products and woodwork under cover at all times.
- **5.4.** Store and handle flammable liquids and other hazardous materials in approved safety containers and as otherwise prescribed by safety authorities. Store no flammable liquids or other hazardous materials in bulk within the Project.
- **5.5.** Storage and special protection requirements may be repeated, and additional requirements specified, in other Sections.

6. Defective Products & Work

- **6.1.** Products and Work found defective; not in accordance with the Specifications; or defaced or injured through negligence of the Contractor, his employees or subcontractors, or by fire, weather or any other cause will be rejected for incorporation in the Work.
- **6.2.** Remove rejected products and Work from the premises immediately.
- **6.3.** Replace rejected products and Work with no delay after rejection. Provide replacement products and execute replacement Work precisely as required by the Specification for the defective Work replaced. Previous inspection and payment shall not relieve the Contractor from the obligation of providing sound and satisfactory Work in compliance with this Project Manual.

7. Workers, Suppliers & Subcontractors

- **7.1.** Assign Work only to workers, suppliers, and Subcontractors who have complete knowledge, not only of the conditions of this Project Manual, but of jurisdictional requirements, and reference standards and specifications.
- **7.2.** Give preference to use of local workers, suppliers, and Subcontractors wherever possible.

Workmanship

7.3. Unless otherwise specified in a more detailed manner, workmanship shall be of the highest quality recognized by trade executing the Work in accordance with standard practices, by the best methods recommended by the manufacturer of the Product, and as approved by the Architect.

END OF SECTION 01 61 00

SECTION 01 77 00 - CONTRACT CLOSEOUT

1. Section Includes

- **1.1.** Final cleaning.
- **1.2.** Spare parts and maintenance materials.
- **1.3.** Take over procedures.

2. Related Sections

2.1. Individual Specifications Sections: Specific requirements for operation and maintenance data.

3. Final Cleaning

- **3.1.** Refer to the General Conditions of Contract.
- **3.2.** Before final inspection, replace glass and mirrors broken, damaged and etched during construction, or which are otherwise defective.
- **3.3.** In addition to requirements for cleaning-up specified in General Conditions of the Contract, include in Work final cleaning by skilled cleaning specialists on completion of construction.
- **3.4.** Remove temporary protections and make good defects before commencement of final cleaning.
- **3.5.** Remove waste products and debris other than that caused by the Owner, other contractors or their employees, and leave the Work clean and suitable for occupancy by Owner.
- **3.6.** Remove surplus products, tools, construction machinery and equipment. Remove waste products and debris other than that caused by the Owner or other Contractors.
- **3.7.** Clean and polish glass, mirrors, hardware, wall tile, stainless steel, chrome, porcelain enamel, baked enamel, plastic laminate, mechanical and electrical fixtures. Replace broken, scratched or disfigured glass.
- **3.8.** Remove stains, spots, marks and dirt from decorative work, electrical and mechanical fixtures, furniture fitments, walls, and floors and ceilings.
- **3.9.** Vacuum clean and dust building interiors, behind grilles, louvres and screens as affected by Work.
- **3.10.** Wax, seal, shampoo, buff or prepare floor finishes, as recommended by the manufacturer. Use products compatible with products used by building maintenance staff.
- **3.11.** Broom clean and wash all horizontal and vertical surfaces as affected by Work.
- **3.12.** Clean up and make good exterior grades, lawns, planting and surfaces after removal of temporary access and facilities.
- **3.13.** Removing of visible labels left on materials, components, and equipment.
- **3.14.** Maintain cleaning until Owner has taken possession of building or portions thereof.

4. Spare Parts And Maintenance Materials

- **4.1.** Spare parts and maintenance materials provided shall be new, not damaged or defective, and of the same quality and manufacture as Products provided in the Work. If requested, furnish evidence as to type, source and quality of Products provided.
- **4.2.** Defective Products will be rejected, regardless of previous inspections. Replace products at own expense.
- **4.3.** Store spare parts and maintenance materials in a manner to prevent damage, or deterioration.
- **4.4.** Provide spare parts, special tools, maintenance and extra materials in quantities specified in individual specification Sections.
- **4.5.** Provide items of same manufacture and quality as items in the Work.

5. Demonstration Of Systems & Equipment

- **5.1.** Give a complete demonstration of all systems and equipment in the presence of the Consultant at the following times:
- **5.2.** When each is 100% completed at the request of the Contractor.
- **5.3.** At time of inspection to validate final completion.
- **5.4.** At final completion for the benefit of the maintenance staff for the Project.
- **5.5.** Responsible personnel representing the Subcontractor responsible for the Work being demonstrated shall be present at each demonstration.

6. Submittals

- **6.1.** Submit with application for substantial performance certificate.
 - **6.1.1.** Certificate of Substantial Performance inspection report from electrical utility or inspection.
 - **6.1.2.** Certificate of verification of fire alarm system.
 - **6.1.3.** Certificate from the Fire Marshal's Office and I.A.O. of final inspection of sprinkler system.
 - **6.1.4.** Air balance reports.
 - **6.1.5.** Other reports required or specified.
 - **6.1.6.** Maintenance Manuals and Operating Instructions.
- **6.2.** Submit with application for release of final payment:
 - **6.2.1.** Final project record drawings.
 - **6.2.2.** Extra stock.
 - **6.2.3.** Performance bonds which shall remain in effect for one (1) year after take-over date.
 - **6.2.4.** Completed Liability Insurance Policy extended for one (1) year from take-over date.
 - **6.2.5.** Written guarantee covering all workmanship and materials used in the Work.
 - **6.2.6.** Maintenance bonds as specified.

- **6.2.7.** Extended Warranties as specified
- **6.2.8.** Certificate from Workers' Compensation Board.
- **6.2.9.** Certificate from Health Services Tax Division.

7. Final Inspection Procedures

- **7.1.** Schedule, make arrangements for and administer final inspections and close out in the following stages.
- **7.2.** Contractor's Inspection:
 - **7.2.1.** Determination that Project meets requirements for substantial performance and inspection is the responsibility of the Contractor.
 - **7.2.2.** The Contractor and all Subcontractors shall conduct an inspection of the work, identify deficiencies and defects; repair as required. Notify the Consultant in writing of satisfactory completion of the contractor's Inspection and that corrections have been made. Request a Consultant's Substantial Performance Inspection.
- **7.3.** Consultant's Inspection: Consultants and the Contractor will perform an inspection of the Work to identify obvious defects or deficiencies. The contractor shall correct Work accordingly.
- **7.4.** Substantial Performance Inspection:
 - **7.4.1.** When the items noted above are complete, request a substantial performance inspection of the Work by the Consultant, and the Contractor. If Work is deemed incomplete by the Consultant, complete the outstanding items and request a reinspection.
 - **7.4.2.** Substantial performance inspections shall be scheduled to begin within eight working days of the Contractor's request.
 - **7.4.3.** Present at the substantial performance inspection will be:
 - **7.4.3.1.** The Consultant and his Sub-consultants that he requires and notifies.
 - **7.4.3.2.** The Owner's representatives, upon notification by the Consultant.
 - **7.4.3.3.** The Contractor and such Subcontractors that he considers are required.
 - **7.4.3.4.** The Contractor will compile a substantial performance deficiency list at this inspection and issue it to the Consultant and Owner.
 - **7.4.3.5.** The Contractor shall correct substantial performance deficiencies before a date agreed upon by the Contractor and Consultant.
 - **7.4.3.6.** Upon the Consultant's approval of substantial performance, the Contractor shall submit an application for a substantial performance certificate.
 - **7.4.3.7.** When the Contractor has satisfied himself that these corrections have been completed in a satisfactory manner by his inspection he shall schedule a final Contractor's inspection by the Consultant, and the Owner's representatives if required, within five working days of the Contractor's request.

7.4.3.8. Upon the Consultant's approval of completion, the Contractor shall submit an application for a completion certificate.

8. Substantial Performance

- **8.1.** The Consultant will issue a Certificate of Substantial Performance when satisfied outstanding deficiencies noted during inspections prior to the Substantial Performance inspection have been corrected, the Work is substantially complete and is so certified by the Owner.
- **8.2.** A list of remaining deficiencies to be rectified before final acceptance will be attached to the Certificate of Substantial Performance.
- **8.3.** Make submissions specified in Subparagraph 1.06 of this Section.

9. Certificate For Release Of Amount Due At Substantial performance

- **9.1.** The Consultant will issue to the Owner a certificate for release of money in an amount equal to the amount due the Contractor under the Contract Documents provided the Consultant is satisfied the Work has been substantially completed.
- **9.2.** The certificate shall indicate the date of substantial performance.
- **9.3.** Payment shall be due in accordance with GC 5.4 and the Contract Documents.

10. Completion Certificate

- **10.1.** The Consultant will issue a Certificate of Completion (DSS Document DC670-92) when he is satisfied that outstanding deficiencies noted during inspections have been corrected and the Work is completed and is so certified by the Owner.
- **10.2.** The date of the completion certificate will commence the required sixty (60) day period before release of final payment.

11. Certificate For Release Of Final Payment

- **11.1.** Subject to the provisions of the Contract Documents, the Consultant will issue to the Owner a certificate for release of final payment sixty (60) days after date of completion certificate providing he is satisfied the Work has been completed.
- **11.2.** The certificate will be in an amount equal to the remaining money due the Contractor under the Contract, and shall indicate the date of final completion.
- **11.3.** Payment shall be due upon date of final completion.

12. Warranties

- 12.1. Establishment of Warranties:
 - **12.1.1.** Warranties shall commence on the Ready-for-Takeover date.
- **12.2.** Warranty Period:
 - **12.2.1.** The Owner will advise the Consultant of defects observed during warranty periods.
 - **12.2.2.** The Consultant will notify the Contractor of defects observed during warranty period and request him to remedy the defects in accordance with the Contractor documents.
 - **12.2.3.** Thirty (30) days before expiration of warranties the Owner's representatives, the Consultant and the Contractor will inspect the Work as arranged by the Contractor noting defects of products and workmanship.
 - **12.2.4.** The Contractor shall immediately remedy such noted defects.

END OF SECTION 01 77 00

CONTRACTOR'S CHECKLIST

Pre-Closing Reminder to Proponents:

- This Request for Proposals (RFP) is a two-file process.
 Please ensure that the submission instructions are followed carefully as noted in Section 00 21 13
 Information to Proponents to ensure your submission is compliant.
- Required Bid Security (10% of the Contract price before HST)
- Please include a copy of your bid security in with your <u>Price Submission file</u>.
- Please submit your proposal to the submission email address: hrcetenders@hrce.ca
- The HRCE will use the CCDC-2, 2020 for this work. A copy of the Standard Construction Contract CCDC 2 2020 is available upon request and will form part of the contract documents.
- The HRCE Supplementary General Conditions for the CCDC-2, 2020 applicable for this work is available for review under Section 0073 00 of the RFP document.

Post Award Document Requirements:

- Certificate of Recognition from a safety audit organization, jointly signed with the WCB.
- Workers' Compensation Board Letter of Good Standing.
- Certificate of Good Standing from the Canadian Roofing Contractors Association and Roofing Contractors Association of Nova Scotia.
- Contract Security documentation if required
- Insurance Certificate As identified in the RFP.
- Schedule of Values
- Site Specific Safety Plan
- Hazard Assessment
- Listing of subcontractors
- Warranty information

The award letter will list the specific documents required and provide a submission timeframe.

A purchase order will be issued only after receipt of all required items.

Work is not authorized until purchase order is issued.

PROJECT EXPERIENCE AND REFERENCES FORM

Refer Technical Submission Requirements in Section 11.3.1 Section I.

Project #1 – The most recent HRCE project, if applicable.

Company Name	
Brief Project Description	
Project Manager Name	
Project Dollar Value \$	
Reference Name	
and Position Title	
Reference Contact Info	
- Email Address	
- Phone Number	

PROJECT EXPERIENCE AND REFERENCES FORM

Refer Technical Submission Requirements in Section 11.3.1 Section I.

Project #2 – The next most recent HRCE project, if applicable

Company Name	
Brief Project Description	
Project Manager Name	
Project Dollar Value \$	
Reference Name	
and Position Title	
Reference Contact Info	
- Email Address	
- Phone Number	

PROJECT EXPERIENCE AND REFERENCES FORM

Refer Technical Submission Requirements in Section 11.3.1 Section I.

Project #3 – Any recent project

Company Name	
Brief Project Description	
Project Manager Name	
Project Dollar Value \$	
Reference Name	
and Position Title	
Reference Contact Info	
- Email Address	
- Phone Number	

PROJECT SAFETY PLAN OUTLINE

During the planning of each project, environmental and occupational health and safety issues will be assessed like any other key project component.

Prior to beginning a new project, tendering contractors shall examine the work area to identify potentially hazardous site specific situations.

Once identified, these hazards should be prioritized on this Hazard Assessments/Project Safety Plan Outline and corrective *actions* noted to eliminate or control each hazard. The dates of when and names of the persons who are responsible for completing the *action* should also be assigned.

Copies of the completed Safety Plan Outline shall be submitted post award, sent to the HRCE Operations Services Regional Manager, made available on the job site and communicated to the workers.

Project Name:		
Project Location:		
Project Start date:		
D : .5		
Project End date:		
Company Name:		
. ,		
Completed by:	(0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
. ,	(Contractor's project manager)	
Date:		
Copy to:		

PROJECT SAFETY PLAN OUTLINE

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PLANNING:			
with this project?	☐Yes ☐ No	h and Safety Program deal with the work activities asso	ciated
Describe tasks to b	e undertaken:		_

HAZARDS ASSESSMENT:

Identify the hazards that could present themselves on this project (e.g. live electrical wires, over water, confined space, etc) and describe what steps will be taken to prevent an incident (e.g. cover up, de-energize, safe work practices, netting, etc). Prioritize from #1 as needing immediate action.

#	Hazard	Required Action	Completed by	Date
1				
_				
2				
3				
4				
5				
6				
7				
8				
9				
10				

ENVIRONMENTAL ASSESSMENT:

Identify the environmental issues that could present themselves on this project (e.g. oil spills, asbestos, etc.) and describe the action that will betaken to eliminate or reduce the risk of occurrence (e.g. mop kits, air sampling, etc.)

#	Hazard	Required Action	Completed by	Date
1				
Ė				
2				
3				
4				
5				

EMERGENCY RESPONSE:

In the event of an incident, pre-plan the response and write up the procedures. Minimally, the following list should be completed and posted on site:

Contact	Phone #	Contact	Phone #
Fire	911	Poison Control	428-8161
Ambulance	911	DangerousGoods	1-800-565-1633
Doctor	911	Waste Disposal	
Police	911	Insurance	
HRCE Office	493-5110	Min/Dept of Labour	1-800-952-2687
Min./Dept.ofTransport.		Min/Dept of Environment	1-800-565-1633

•	Identify and arrange source of first aid, ambulance and rescue.
•	Accidents will be reported to:
	Accidents will be investigated by:
•	Back-up call to:

■ HRCE # emergency/after hours: <u>day 902-493-5110</u> <u>after 4:00 pm 902-442-2476</u>

PROJECT SAFETY PLAN OUTLINE

On this p	MEETINGS: roject, given the nature of the work are following frequency will apply:	and the anticipated size of the work
Si	ite meetings	
Si	ite Audits	
Fo	ollow up with HRCE Manager:	
SITE IM	IPLEMENTATION:	
■ H	ealth and Safety Rep & Safety Comm Establish liaison between HRCE administration First Aid, PPE, o required.	, contractor, site
■ D	ocumentation: Applicable MSDS Safety program	
	Applicable work procedures Permits	
	First Aid Certification	
TRAINING The follow	NG: ving training/testing will be mandatory o	n site:
1) _		
2)		
3)		



Hammonds Plains School Roof Replacement – Phase 3

2180 Hammonds Plains Road., Halifax, Hammonds Plains,

NS B4B 1M5

Issued for Tender

FBM Project # 2024-014

March 31, 2024

Hammonds Roof Repla	s Plains School cement – Phase 3 ct No. 2024-014	List of Contents ISSUED FOR TENDER	Section 00 01 10 31 March 2024 Page 1 of 1
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01	GENERAL REQUIREMEN Outlined in "Halifax Regions	TS al Centre for Education" General Requiren	nents
03	CONCRETE Not used		
04	MASONRY Not Used.		
05 -	METALS Not Used.		
06 06 10 00	WOODS, PLASTICS, AND Rough Carpentry	COMPOSITES	4
07 07 01 50 07 27 13 07 52 16 07 62 00	THERMAL AND MOISTUR Preparation for Reroofing Sheet Membrane Air and V Modified Bituminous Memb Sheet Metal Flashing and T	apour Barriers rane Roofing	5 6 13 5
08 -	OPENINGS Not Used		
09 -	FINISHES Not Used.		
10 -	SPECIALTIES Not Used.		
12 -	FURNISHINGS Not Used.		
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Halifax Regional Center for Education

END OF SECTION

Halifax Regional Center for Education Hammonds Plains School Roof Replacement – Phase 3 FBM Project No. 2024-014

List of Drawings

ISSUED FOR TENDER

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ARCHITECTURE

A-101 ROOF PLAN

A-501 SECTION DETAILS

A-502 DETAILS A-503 DETAILS

A-801 LADDER DETAILS

END OF SECTION

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Section 07 01 50 Preparation for Reroofing.
- .2 Section 07 52 16 Modified Bituminous Membrane Roofing.
- .3 Section 07 62 00 Sheet Metal Flashing and Trim.

1.2 REFERENCES

- .1 ASTM International (ASTM)
 - .1 ASTM A153/A153M-16 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
 - .2 ASTM A653/A653M-15e1, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .3 ASTM D1761-12, Standard Test Methods for Mechanical Fasteners in Wood.
 - .4 ASTM E1333-14, Standard Test Method for Determining Formaldehyde Concentrations in Air and Emission Rates from Wood Products Using a Large Chamber.
 - .5 ASTM F1667-15, Standard Specification for Driven Fasteners: Nails, Spikes, and Staples.
- .2 Canadian Roofing Contractors' Association (CRCA)
 - .1 CRCA Roofing Specification Manual.
- .3 CSA Group (CSA)
 - .1 CAN/CSA G164-18, Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .2 CSA O121-17, Douglas Fir Plywood.
 - .3 CSA O141-05 (R2014), Softwood Lumber.
 - .4 CAN/CSA O325-16, Construction Sheathing.
- .4 National Lumber Grading Association (NLGA):
 - .1 NLGA SPS 2-2017, Machine Graded Lumber.
 - .2 Standard Grading Rules for Canadian Lumber 2017.
- .5 FM Global Group
 - .1 FM Approvals 4470, Approval Standard for Single-Ply, Polymer-Modified Bitumen Sheet, Built-Up Roof (BUR) and Liquid Applied Roof Assemblies for Use in Class 1 and Noncombustible Roof Deck Construction.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit product data in accordance with Division 01 General Requirements:
 - .1 Submit manufacturer's printed product literature, specifications and technical datasheets.
 - .2 Submit MSDS sheets or official manufacturer literature stating no added urea-formaldehyde was used in the manufacturing of composite wood.

Rough Carpentry

ISSUED FOR TENDER

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1.4 QUALITY ASSURANCE

- .1 Lumber identification: Use CLS grade marked lumber conforming to the Standard Grading Rules for Canadian Lumber published by the National Lumber Grades Authority.
- .2 Plywood identification: Use grade marked plywood in accordance with the applicable CSA standards.

1.5 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver wood products bundled or crated to provide adequate protection during transit. Inspect wood products for damage upon delivery and remove and replace damaged materials.
- .2 Store materials a minimum of 150 mm off the ground on blocking. Keep materials under cover and dry. Provide for air circulation within and around stacks and under temporary coverings.
- .3 Protect sheet materials to prevent breaking of corners and damage to surfaces.

Part 2 Products

2.1 LUMBER

- .1 Lumber: Structural Light Framing to CAN/CSA O141, softwood, S-P-F, S4S, graded and stamped in accordance with National Lumber Grading Association (NLGA) Standard Grading Rules for Canadian Lumber and as follows:
 - .1 Moisture Content: maximum 8% at time of installation.
 - .2 Grade: No. 2 or better.
 - .3 Dimensions: as indicated.

2.2 PANEL MATERIALS

- .1 Exterior grade plywood: exterior grade Douglas Fir (DFP) to CSA O121, 19mm or 13mm thickness, as indicated; waterproof glue bond;
- .2 Panels shall have no added urea formaldehyde.

2.3 ACCESSORIES

- .1 Sealants: Maximum allowable VOC limit 250 g/L in accordance with SCAQMD Rule 1168.
- .2 General purpose adhesive: to CSA O112 Series. Maximum allowable VOC limit 70 g/L in accordance with SCAQMD Rule 1168.
- .3 Nails, spikes, and staples: to ASTM F1667, double hot dipped galvanized for exterior work; hot dipped galvanized for all other purposes.
- .4 Screws for securing lumber and plywood at parapets and curbs: #12, unless indicated otherwise, self-drilling with flat or pancake head, to FM Approvals 4470.
 - .1 Length: to achieve 38mm minimum embedment into underlying wood member.
 - .2 Acceptable Manufacturer: Trufast, or approved alternative.
- .5 Masonry screw anchors; one of the following:
 - .1 Steel screws designed for anchoring to concrete and masonry substrates, 6mm diameter, flat head, with 38mm minimum embedment.
 - .1 Genuine Tapcon, by ITW, or approved alternate.

- .2 Pin bolts: light duty pin bolt anchor assembly comprised of corrosion resistant zinc/aluminum alloy anchor body with stainless steel pin; length to provide 38mm minimum embedment into existing masonry, 6mm (1/4") diameter.
 - .1 Standard of acceptance: Zamac Pin Bolt, by UCAN.
- Nailing discs: flat caps, minimum 25 mm diameter, minimum 0.4 mm thick, galvanized sheet metal or fibre, formed to prevent dishing. Bell or cup shapes not acceptable.

2.4 FASTENER FINISHES

- .1 Galvanizing: use hot-dipped galvanized fasteners complying with ASTM A153 and connectors complying with ASTM A653, class G185, for all other applications.
- .2 Screws: to FM Approvals 4470.

Part 3 Execution

3.1 COMPLIANCE

- .1 Comply with requirements of National Building Code of Canada 2015 and amendments (NBC), and the requirements of this Section.
- .2 Accurately frame and properly assemble rough carpentry work. Include all necessary nails or other connectors.

3.2 INSTALLATION

- .1 Install members true to line, levels and elevations, square and plumb.
- .2 Construct continuous members from pieces of longest practical length.
- .3 Plywood at steel deck: Secure plywood to existing deck below curbs, parapets, and at roof drains as indicated.
- .4 Framed curbs and parapets:
 - .1 Construct in sections with studs spaced at 406mm on center with continuous top and bottom plates end nailed to studs; two framing nails per stud at top and bottom. Toe nailing is not acceptable.
 - .2 Secure framed sections to plywood/steel deck, as indicated, with specified FM screws at 200mm on center, staggered, through bottom plate.
 - .3 Secure additional lumber top plate, as indicated, to framed section top plate with specified FM screws at 200mm on center, staggered. Offset end joints from top plate below.
 - .4 Install batt insulation, semi-rigid insulation, blocking and sloped plywood top layer at parapets, as indicated.

3.3 BATT AND SEMI-RIGID INSULATION

.1 Refer to Section 07 52 16 – Modified Bituminous Membrane Roofing.

3.4 CLEANING

- .1 Progress Cleaning: clean in accordance with HRCE's Requirements. Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment. Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .3 Manage and dispose of demolition and construction waste materials.

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3.5 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by Work of this Section.

END OF SECTION

PART 1 - General

1.1 SUMMARY

- .1 Section Includes:
 - .1 Complete removal of existing roofing materials at selected roof areas, as indicated.
- .2 Existing Roofing System:
 - .1 2-ply modified bitumen roof membrane.
 - .2 ½" Fiberboard, adhered.
 - .3 4" rigid insulation, adhered.
 - .4 Asphalt vapour barrier.
 - .5 ½" gypsum deck sheathing.
 - .6 Existing steel deck.

1.2 RELATED REQUIREMENTS

- .1 Wood blocking: Section 06 10 00, Rough Carpentry.
- .2 New Roofing Systems:
 - .1 Section 07 52 16, Modified Bitumen Membrane Roofing.
- .3 Sheet Metal Flashing: Section 07 62 00, Sheet Metal Flashing and Trim.

1.3 PRECONSTRUCTION MEETING

- .1 Conduct preconstruction meeting within fifteen (15) days after award of contract, or in accordance with HRCE's requirements.
- .2 Required Participants:
 - .1 Contractor's project manager.
 - .2 Contractor's foreman.
 - .3 Consultant.
 - .4 Client's representative.
- .3 Meeting Agenda: as required by HRCE.

1.4 SUBMITTALS

- .1 Submit manufacturer's literature and data for products used to achieve a watertight vapour barrier/temporary roof, including:
 - .1 Description of each product.
 - .2 Description of temporary roof system and components.
 - .3 Description of patching materials.
 - .4 Description of tie-in/transition to existing membrane roofing.

1.5 QUALITY ASSURANCE

.1 Regulatory Requirements: Ensure Work is performed in compliance with CEPA, CEAA, TDGA, and applicable Provincial/Territorial and Municipal regulations.

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.2 Installer Qualifications: Same as required for Section 07 52 16, Modified Bitumen Membrane Roofing.

1.6 FIELD CONDITIONS

- .1 Examine information provided in the Contract documents before beginning work of this section.
- .2 Weather Limitations: Proceed with reroofing preparation and removals only during dry weather conditions as specified for new roofing installation in Section 07 52 16, Modified Bitumen Membrane Roofing.
- .3 Remove only as much roofing in one day as can be made watertight in same day.
- .4 Do not disturb suspected hazardous materials. When discovered, notify HRCE immediately.
- .5 Ensure Work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
- .6 Fires and burning of waste or materials is not permitted on site.
- .7 Do not bury rubbish waste materials.
- .8 Do not dispose of waste or volatile materials including but not limited to: mineral spirits, oil, petroleum based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers.
- .9 Ensure proper disposal procedures are maintained throughout project.
- .10 Do not pump water containing suspended materials into watercourses, storm or sanitary sewers, or onto adjacent properties.
- .11 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with authorities having jurisdiction.
- .12 Protect trees, plants and foliage on site and adjacent properties where indicated.
- .13 Protect adjacent vehicles and parking areas.
- .14 Prevent extraneous materials from contaminating air beyond application area, by providing temporary enclosures during demolition work.

1.7 EXISTING CONDITIONS

- .1 If material resembling spray or trowel applied asbestos or other designated substance listed as hazardous be encountered in course of demolition, stop work, take preventative measures, and notify HRCE immediately. Proceed only after receipt of written instructions have been received from HRCE.
- .2 Items to be demolished and removed are based on their condition, at time of examination prior to tendering.
- .3 Do not proceed with Work until conditions have been reviewed by Consultant and deemed acceptable.

1.8 SALVAGE

.1 HRCE has the right to salvage any materials, fittings, equipment and devices that are called for removal in the contract documents.

.2 Consult with HRCE Project Manager prior to demolition start to determine a schedule of items to salvage, and the location to store items. Items identified must be handled carefully and in a manner to maintain their as found condition on site.

1.9 WARRANTY

.1 Provide warranty as required for Section 07 52 16, Modified Bituminous Membrane.

PART 2 - PRODUCTS

2.1 MATERIALS

.1 Refer to Section 07 52 16, Modified Bituminous Membrane Roofing.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Do examination, preparation and roofing Work in accordance with Roofing Manufacturer's Specification Manual and CRCA Roofing Specification Manual, particularly for fire safety precautions.
- .2 Do priming in accordance with manufacturer's written recommendations.

3.2 PREPARATION AND PROTECTION

- .1 Per Section 01 11 00, Part 12 Protection of Work Property and Persons, and as supplemented below.
- .2 Cover walls, walks and adjacent work where materials are hoisted or used.
- .3 Provide hanging tarps or other suitable barriers below steel deck/ceiling areas to protect interior surfaces below.
- .4 Use warning signs and barriers. Maintain in good order until completion of Work.
- .5 Stair tower: Construct stair tower to provide safe and convenient access to roof.
 Construct and maintain in accordance with Construction Safety Act of the Province of
 Nova Scotia, as well as all other applicable regulations or jurisdictional authorities.
 Construct one stair tower, to access roof area C, D, or E. A portable ladder can be used
 to access roof area A, from B. Maintain stair tower and ladder throughout the duration of
 the project. Coordinate location of stair tower with HRCE.

.6 Fencing:

- .1 The outside work area shall be appropriately demarked and/or surrounded by rigid chain link panels or fencing to prevent unauthorized entry to the work area. Any area of roof having work completed is to be covered below with this fencing approximately 10' from the edge of the building. It is to be maintained at all times throughout the project. All waste disposal bins are to be fenced in using the same type of fencing as indicated above during working hours.
- .2 Fencing shall be continuous around the work area. Ensure that fencing is properly secured and anchored at its base to prevent displacement and collapse. This requirement relates to fencing failures observed at previous HRCE work sites where fencing was damaged or had fallen and was not properly maintained.

- .7 Waste disposal Bins: After working hours, all waste disposal bins shall be located a minimum of 25 feet from any structure. Any windows where the debris chute is located are to be covered.
- .8 Overhead Protection: Provide overhead protection at all doors and entrances. Protection is to be comprised of tube and clamp scaffolding structure complete with planks as required to protect areas from work above, for a distance of ten feet from edge of building. All workers shall contain their activity to the work site area. Access to the school shall only be allowed as planned in coordination with HRCE Operations and the school administration.
- .9 Clean off drips and smears of bituminous material immediately.
- .10 Lower drains as strip off progresses to the level of the torched vapour barrier which will be used as a temporary roof and raise drains to the final level as base sheet is installed. Ensure that drains are at all times connected with MJ couplings so a blockage in a drain line down stream cannot back up and flow into the building. Unequal sized MJ couplings exist to allow different sizes of pipe to be connected.
- .11 Protect roof from traffic and damage. Protection of existing roof shall be provided from roof access points to work area using 1220x2440mm plywood sheets on 1" rigid foam insulation. Comply with precautions deemed necessary by HRCE representative.
- .12 Do not impede drainage with roof protection materials.
- .13 At end of each day's work or when stoppage occurs due to inclement weather, provide protection for completed Work and materials out of storage.
- .14 Examine and verify substrate suitability for product installation.
- .15 Maintain temporary protection until replacement roofing is completed.
- .16 Protect existing construction and completed work from damage.
- .17 Maintain access to existing exits and walkways.
- .18 Coordinate use of rooftop fresh air intakes with HRCE's Representative to minimize effect on indoor air quality.
- .19 Ensure temporary protection materials are available for immediate use in case of unexpected rain.
- .20 Keep drainage systems clear of debris. Use filter fabric at drains.
- .21 Prevent water from entering building and existing roofing system.
- .22 Coordinate rooftop utilities remaining active during roofing work with HRCE's Representative.

3.3 ROOFING SYSTEM REMOVAL

- .1 Remove contaminated or dangerous materials as defined by authorities having jurisdiction, relating to environmental protection, from site and dispose of in safe manner to minimize danger at site or during disposal.
- .2 Prior to start of Work remove contaminated or hazardous materials listed as hazardous as defined by authorities having jurisdiction from site and dispose of at designated disposal facilities in safe manner and in accordance with TDGA and other applicable requirements and Sections.
- .3 Remove existing roofing assembly components down to the level of existing steel deck.

- .4 Demolish and remove existing roofing elements as indicated. Removed elements include, but are not limited to, the following items:
 - .1 Roof membranes, cover boards, insulation, vapour barrier, deck sheathing, and related wood blocking, flashings, cants, and fasteners.
 - .2 Mechanical equipment curbs.
 - .3 Metal cladding.
 - .4 Roof drains.
- .5 Remove material in sections as work progresses.
- .6 At end of each day's work, leave Work in safe and stable condition.
- .7 Demolish to minimize dusting.
- .8 Remove and dispose of demolished materials except where noted otherwise and in accordance with authorities having jurisdiction.
- .9 Remove all existing roofing fasteners.
- .10 Dispose of all debris legally off site.

3.4 DECK PREPARATION

- .1 Visually inspect steel deck and related substrate conditions. Inform consultant immediately if corroded deck areas, or otherwise deteriorated or damaged areas, are encountered.
- .2 Clean steel deck flutes of debris.
- .3 Flute filler insulation: per Section 07 52 16, Modified Bituminous Membrane Roofing.
- .4 Do Work in accordance with manufacturer's recommendations.
- .5 Do not proceed with Work until conditions have been reviewed by the Consultant and direction has been given.

3.5 TEMPORARY ROOF

- .1 The torched down base sheet vapour barrier can serve as a temporary roof until the remainder of the roof assembly is installed up to base sheet level.
- .2 Only remove and install as much roofing that can be completed watertight in one day.

3.6 FIELD QUALITY CONTROL

- .1 Periodic site reviews will be conducted by the Consultant.
- .2 Manufacturer: Inspect reroofing preparation and roofing installation to verify compliance with warranty conditions.

3.7 DISPOSAL

- .1 Separate waste materials for reuse and recycling in accordance with Division 01 requirements.
- .2 Remove and dispose of materials in accordance with WASTE MANAGEMENT AND DISPOSAL.
- .3 Remove waste materials from project site, regularly, to prevent accumulation.

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Part 1 General

1.1 SUMMARY

.1 This section specifies requirements for self-adhesive sheet membrane materials intended for use as the air barriers in the exterior envelope systems of the building as indicated on the drawings, at metal cladding areas.

1.2 RELATED REQUIREMENTS

.1 Section 07 52 16 – Modified Bituminous Membrane Roofing.

1.3 REFERENCE STANDARDS

- .1 ASTM International (ASTM):
 - .1 ASTM E96/E96M-16, Standard Test Methods for Water Vapor Transmission of Materials.
 - .2 ASTM E783-02 (2018), Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors.
 - .3 ASTM E1186-03 (2017), Standard Practices for Air Leakage Site Detection in Building Envelopes and Air Barrier Systems.
 - .4 ASTM E2178-13, Standard Test Method for Air Permeance of Building Materials.
 - .5 ASTM E2357-18, Standard Test Method for Determining Air Leakage of Air Barrier Assemblies.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-19.13M-M87, Sealing Compound, One Component, Elastomeric Chemical Curing.
 - .2 CAN/CGSB-19.24M-90, Multi-Component, Chemical Curing Sealing Compound.
 - .3 CGSB 19-GP-14M-84, Sealing Compound, One Component, Butyl-Polyisobutylene Polymer Base, Solvent Curing.
- .3 Sealant and Waterproofer' Institute Sealant and Caulking Guide Specification.
- .4 National Air Barrier Association (NABA): Quality Assurance Program.

1.4 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Division 01 General Requirements.
- .2 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and datasheet and include:
 - .1 Product characteristics.
 - .2 Performance criteria.
 - .3 Limitations.
 - .4 Installation instructions.
- .3 Submit Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS).
- .4 Quality assurance submittals: submit the following in accordance with Division 01 General Requirements.
 - .1 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.

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.2 Instructions: submit manufacturer's installation instructions and comply with written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheet.

1.5 QUALITY ASSURANCE

.1 Applicator: company specializing in performing work of this section with minimum 5 years documented experience with installation of air/vapour systems and approved by materials manufacturer.

.2 Mock-Ups:

- .1 Submit mock-ups in accordance with Division 01 General Requirements.
- .2 Construct mock-up of sheet air barrier installation at metal cladding assembly, incorporate junctions with roof systems, lap joints, movement joints, corners and connection to electrical and mechanical components. Mock-up may be part of finished work.
- .3 Mock-up will be used to illustrate material interfaces and seals, to judge workmanship, substrate preparation, and material application.
- .4 Locate where directed.
- .5 Allow 48 hours for inspection of mock-up by Consultant before proceeding with air/vapour barrier work.
- .3 When accepted, mock-up will demonstrate minimum standard of quality required for this work. Approved mock-up may remain as part of finished work.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, handle, store and protect materials in accordance with manufacturer' written instructions.
- .2 Provide and maintain dry, off-ground weatherproof storage.
- .3 Store rolls of membrane in upright position, with manufacturer's labels and seals intact.
- .4 Store protected from sunlight, weather and deleterious materials.
- .5 Remove only in quantities required for same day use.

1.7 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Division 01 General Requirements.
- .2 Place materials defined as hazardous or toxic waste in designated containers.
- .3 Ensure emptied containers are sealed and stored safely for disposal away from children.

1.8 AMBIENT CONDITIONS

- .1 Do not install solvent curing sealants or vapour release adhesive materials in enclosed spaces without ventilation.
- .2 Maintain temperature and humidity recommended by materials manufacturer before, during and after installation.

1.9 SEQUENCING

.1 Sequence work to permit installation of materials in conjunction with related materials and seals.

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1.10 COORDINATION

.1 Coordinate work of this section with all sections referencing this section.

1.11 WARRANTY

- .1 For sealant and sheet materials the 12 months warranty period is extended to two (2) years from date of Substantial Performance.
- .2 Warranty: include coverage of installed sheet materials which fail to achieve air tight and water tight seal, exhibit any loss of adhesion or delaminates, including any loss of adhesion to substrate or delamination of the membrane itself.
- .3 Provide a written warranty on materials and workmanship for a period of two years after Substantial Performance.

Part 2 Products

2.1 AIR BARRIER MEMBRANE

- .1 Vapour permeance: greater than 572 ng/Pa·s·m² when tested in accordance with ASTM E96, Method A.
- .2 Air permeance @ 75Pa: less than 0.0147 L/s. m2, when tested in accordance with ASTM E2178.
- .3 Self-adhered, vapour permeable, water resistive, sheet air barrier.
 - .1 Acceptable materials:
 - .1 Blueskin VP 160 by Henry Bakor.
 - .2 Sopraseal Stick VP by Soprema.
 - .3 Aqua Barrier VP by IKO.
 - .4 Or approved alternate.
- .4 Primer: approved primer only as required and as recommended by membrane manufacturer.

2.2 TRANSITION MEMBRANE

- .1 Vapour impermeable: 5.72 ng/Pa·s·m² or less.
- .2 For sheet materials indicated below, standard of acceptance noted is based on Henry-Bakor. Alternate manufacturers are acceptable provided they meet the same criteria as the referenced standard.
- .3 Self-adhered, rubberized asphalt bonded to sheet polyethylene:
 - .1 General use areas, summer or winter grade, as requried: smooth face, nominal total thickness of 40 mil (1mm). Acceptable material:
 - .1 Blueskin SA by Henry Bakor
 - .3 SopraSeal Stick 1100 T Summer by Soprema.
 - .4 Aqua Barrier ABV by IKO Industries.
 - .5 Or approved alternate.
- .4 Primer: solvent based, as recommended by the sheet membrane manufacturer for application to concrete block, cast-in-place concrete, glass-met faced exterior sheathing board, and plywood.
- .5 Mastics: at all terminations and projections as recommended and supplied by membrane manufacturer.

- .6 Attachments: galvanized steel termination bars and anchors.
- .7 Substrate cleaner: non-corrosive type recommended by sealant manufacturer compatible with adjacent materials.
- .8 Preformed compressible back-up material: extruded polyethylene, closed cell foam rod, 32 kg/m3 density, size to suit joint dimension.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and data sheets.
- .2 Perform Work in accordance with National Air Barrier Association Professional Contractor Quality Assurance Program.

3.2 ENVIRONMENTAL REQUIREMENTS

- .1 All membrane shall be installed at surface and ambient temperature of 10 degrees C or above, in dry weather conditions.
- .2 For applications below 10 degrees C use low temperature products and materials and consult membrane manufacturer's technical representative for instructions, and obtain Consultant's approval before proceeding with Work.

3.3 EXAMINATION

- .1 Verify that surfaces and conditions are ready to accept the Work of this section.
- .2 Ensure all surfaces are clean, dry, sound, smooth, continuous and comply with air barrier manufacturer's requirements.
- .3 Report any unsatisfactory conditions to the Consultant in writing.
- .4 Do not start work until deficiencies have been corrected. Commencement of Work implies acceptance of conditions.

3.4 PREPARATION

- .1 Remove loose or foreign matter which might impair adhesion of materials.
- .2 Ensure all substrates are clean of oil or excess dust, all masonry joints struck flush and open joints filled; and all concrete surfaces free of large voids, spalled areas or sharp protrusions.
- .3 Ensure all substrates are free of surface moisture prior to application of self-adhesive membrane and primer.
- .4 Ensure metal closures are free of sharp edges and burrs.
- .5 Prime substrate surfaces to receive adhesive and sealants in accordance with manufacturer's instructions.

.6 Primer to be dry and 'tacky' prior to membrane application. Membrane to be applied to primed area on the same day as primer application.

3.5 INSTALLATION: SHEET MATERIALS

- .1 Install sheet materials to prepared substrates in strict accordance with membrane manufacturer's written recommendations.
- .2 Align and position self-adhering membrane over primed substrate, remove protective film and press firmly into place. Ensure minimum 6" (150mm) overlap at all end and side laps, position lap seal over firm bearing.
- .3 Corner details: Double cover outside and inside corners, use 12" (300mm) wide initial strip of membrane centred on axis of corner. Follow with full width of sheet membrane to cover initial strip completely.
- .4 Construction and control joints: Install membrane in double thickness over properly sealed joints, use 12" (300mm) wide initial strip of membrane centred over joint. Follow with full width of sheet membrane. Insure that joints are properly sealed and/or prepared with backup material and joint filler and a compatible sealant are installed.
- .5 Roll membrane with a metal roller to ensure complete adhesion to substrate material. Roll in two separate passes at 90 degrees to each other.
- .6 Small protrusions (pipes, etc.) and penetrations through the membrane, should be pre-stripped with membrane and sealed with mastic.
- .7 Ensure all electrical, mechanical and architectural penetrations are sealed to maintain integrity and continuity of the air/vapour barrier and air barrier membranes of the building envelope.
- .8 Caulk all joints with mastic. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- .9 Inspect membrane installation meticulously and immediately. Holes and tears in the membrane must be repaired with air/vapour barrier and air barrier membrane material. The repair must exceed the affected surface area by a minimum of 6" (150mm). The membrane piece applied for the repair must be sealed around its edges with mastic.

3.6 CLEANING

.1 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

3.7 PROTECTION OF WORK

- .1 Protect finished work.
- .2 Do not permit adjacent work to damage work of this section.
- .3 Ensure finished work is protected from climatic conditions.

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Part 1 General

1.1 RELATED SECTIONS

FBM Project No. 2024-014

- 1. Section 06 10 00 Rough Carpentry.
- Section 07 01 50 Preparation for Reroofing.
- 3. Section 07 62 00 Sheet Metal flashing and Trim.

1.2 SUMMARY

- .1 Work of this Section includes the following:
 - .1 2 ply modified bitumen roofing system, adhered, with cold-applied and torch-applied membranes.
 - .2 Accessories including wood blocking/framing, flashings, closures, and sealants.

1.3 REFERENCES

- .1 The publications listed below (latest revision applicable) form a part of this specification to the extent referenced herein. The publications are referred to within the text by the designation only.
- .2 ASTM International Inc.
 - .1 ASTM D 41-11, Standard Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing.
 - .2 ASTM F1667-15, Standard Specification for Driven Fasteners: Nails, Spikes, and Staples.
 - .3 ASTM C 1396/C 1396M-13, Standard Specification for Gypsum Board.
- .3 Canadian General Standards Board (CGSB)
 - .1 CGSB 37-GP-9Ma-83, Primer, Asphalt, Unfilled, for Asphalt Roofing, Dampproofing and Waterproofing.
- .4 Canadian Roofing Contractors Association (CRCA).
 - .1 CRCA Roofing Specifications Manual, 2013.
- .5 Canadian Standards Association (CSA International)
 - .1 CSA A123.21-14, Standard test method for the dynamic wind uplift resistance of membrane-roofing systems
 - .2 CSA A123.23-15, Product specification for polymer-modified bitumen sheet, prefabricated and reinforced.
- .6 FM Global Group
 - .1 FM Approvals 4470, Approval Standard for Single-Ply, Polymer-Modified Bitumen Sheet, Built-Up Roof (BUR) and Liquid Applied Roof Assemblies for Use in Class 1 and Noncombustible Roof Deck Construction.
- .7 Health Canada / Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .8 Underwriters Laboratories' of Canada (ULC).
 - .1 CAN/ULC S704, Thermal Insulation, Polyisocyanurate, Boards and Pipe Covering.

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- .2 CAN/ULC S702.1:2014-AMD1, Standard for Mineral Fibre Thermal Insulation for Buildings, Part 1: Material Specification.
- .3 CAN/ULC S702.2-15, Mineral Fibre Thermal Insulation for Buildings, Part 2: Application Guidelines.

1.4 INFORMATIONAL SUBMITTALS

- .1 Provide Product Data as follows:
 - .1 Provide two copies of most recent technical roofing components data sheets describing materials' physical properties and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Provide two copies of Workplace Hazardous Materials Information System (WHMIS) Material Safety Data Sheets (MSDS). Indicate VOC content for:
 - .1 Primers.
 - .2 Sealers.
- .2 Provide shop drawings:
 - .1 Indicate flashing, control joints, and fastening details.
 - .2 Provide layout for tapered insulation and details.
- .3 Manufacturer's Certificate: certify that products meet or exceed specified requirements.
- .4 Manufacturer's Installation Instructions: indicate special precautions required for seaming the membrane.
- .5 Test report: manufacturer's documentation of roof assembly and components tested to CSA A123.21 for dynamic wind uplift resistance.

1.5 QUALITY ASSURANCE

- .1 Installer qualifications: company or person specializing in application of modified bituminous roofing systems with 5 years documented experience approved by manufacturer.
- .2 Member in good standing with Canadian Roofing Contractors Association (C.R.C.A.).
- .3 Member in good standing with Roofing Contractors Association of Nova Scotia (R.C.A.N.S.).

1.6 FIRE PROTECTION

- .1 Maintain one fire extinguisher on roof per torch applicator:
 - .1 Cartridge operator type or stored pressure rechargeable type with hose and shut-off nozzle,
 - .2 ULC labelled for A, B and C class protection.
 - .3 Size 9 kg, within 6 m of torch applicator.
- .2 Maintain fire watch for 3 hours after each day's roofing operations cease, or as required by HRCE, whichever is more stringent.

1.7 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions
- .2 Storage and Handling Requirements:
 - .1 Safety: comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of asphalt, sealing compounds, primers and caulking materials.
 - .2 Provide and maintain dry, off-ground weatherproof storage.
- .3 Store rolls of membrane in upright position. Store membrane rolls with salvage edge up.

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- .4 Remove only in quantities required for same day use.
- .5 Place plywood runways over completed Work to enable movement of material and other traffic.
- .6 Store low-rise foam adhesives at a minimum temperature of 20 degrees C.
- .7 Store sealants at +5 degrees C minimum.
- .8 Store insulation protected from daylight and weather and deleterious materials.

1.8 WASTE MANAGEMENT AND DISPOSAL

.1 Dispose of all debris legally off site.

1.9 SITE CONDITIONS

- .1 Ambient Conditions
 - Do not install roofing when temperature remains below -18 degrees C for torch application.
 - .2 Minimum temperature for solvent-based adhesive is -5 degrees C.
- .2 Cold-applied membranes:
 - Do not apply roof system during inclement weather or when ambient temperatures are expected to be below 4°C (40°F). For temperatures below this practice cold weather application techniques as recommended by membrane manufacturer.
 - .2 Apply cold adhesives only when ambient air temperatures and relative humidity ensure proper cure.
- .3 Install roofing on dry deck, free of snow and ice, use only dry materials and apply only during weather that will not introduce moisture into roofing system.

1.10 WARRANTY

- .1 2-year CRCA, or equivalent, materials and workmanship against leaks and blow-off.
- 15-year total system warranty, including all labour, materials, and workmanship, from the membrane manufacturer to confirm that it will repair any leaks in the roof membrane and restore the roofing system to a dry and watertight condition, to the extent that manufacturing or installation defects caused such water infiltration. The warranty must cover all roofing components from the deck up to the finished cap sheet and the total cost of repair(s) during the entire warranty period.

Part 2 Products

2.1 MANUFACTURERS

.1 Roof systems and components specified in this Section are based on products manufactured by Soprema and IKO. Systems from other manufacturers will be considered, provided they meet the warranty requirements and PERFORMANCE CRITERIA.

2.2 ASSEMBLY

- .1 All roof areas: Roof system components include:
 - .1 Cap sheet: Granule surfaced modified bitumen cap sheet membrane, adhered (torch-applied).
 - .2 Cover board/base sheet combination: Mineral fortified asphalt cover board with factory adhered bitumen base sheet, adhered (low-rise foam).
 - .3 Membrane flashings: modified bitumen, adhered.
 - .1 Base sheets: cold-applied.

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- .2 Cap sheets: torch-applied.
- .4 Insulation: Polyisocyanurate insulation, adhered (low-rise foam).
- .5 Vapour barrier: Modified bitumen membrane, adhered (torch-applied).
- .6 Thermal barrier: Gypsum board sheathing (mechanically attached).
- .7 Existing steel deck.

2.3 PERFORMANCE CRITERIA

- .1 Roofing System: to CSA A123.21 for wind uplift resistance, secured to structure, and capable of withstanding uplift loads as determined by National Building Code of Canada, current edition.
- .2 Tested wind uplift load capacity of roofing system assembly shall be determined in accordance with CSA A123.21.
 - .1 Minimum uplift resistance (factored values):
 - .1 Field zone: 1.45 kPa (30 psf).
 - .2 Edge zone: 2.90 kPa (60 psf).
 - .3 Corner zone: 4.3 kPa (90 psf).

2.4 WOOD COMPONENT COVERING

- .1 Items listed in this part are used to protect wood components from flames of torch application, at all parapets and curbs.
- .2 Install self-adhesive or cold adhesive base sheets over all wood components, prior to proceeding with installation of torch-applied base or cap sheet membranes. Refer to details.
- .3 Alternate: Install dry base sheet and 6mm thick recovery board, mechanically fastened, over wood components, as indicated in details.

2.5 DECK PRIMER

.1 Asphalt primer: to CGSB 37-GP-9Ma and as supplied by the membrane manufacturer, suitable for use with torch-applied membranes.

2.6 THERMAL BARRIER

- .1 Glass Mat Gypsum board sheathing: to ASTM C 1396/C 1396M 12.7 mm thick.
 - .1 Standard of Acceptance:
 - .1 Densdeck Prime by Georgia Pacific.
 - .2 Securock Roof Board by CGC Inc.
 - .3 Securerock Glass Mat, by CGC

2.7 VAPOUR BARRIER

- .1 Vapour barrier: to CSA A123.23-15, Styrene- Butadiene Styrene (SBS) elastomeric polymer, polyester or glass fiber reinforcement, prefabricated sheet, 3.0 3.5mm thick (minimum); Type A or B, Grade 3.
 - .1 Top surface: sanded.
 - .2 Bottom surface: polyethylene film.
 - .3 Acceptable material:
 - .1 Torchflex TF-180-SF-Base, by IKO
 - .2 Sopralene 180 SP 3.5, by Soprema
 - .3 Approved alternative.
- .2 Self-adhesive: Self-adhering SBS modified bitumen base sheet with a self-adhesive

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underside covered by a release film, having a nominal weight of 180 g/m2 and thickness of 2.5mm.

.1 Top surface: thermofusible film, where applied on plywood below wood curbs.

2.8 POLYISOCYANURATE INSULATION

- .1 Polyisocyanurate insulation: to CAN/ULCS704 Type 2; flat and tapered.
 - .1 Compressive strength: 20 psi
 - .2 LTTR R-value: 17.4 (for 75mm thickness)
 - .3 Board size: 1220mm x 1220mm.
 - .4 Facer: coated glass.
 - .5 Board thicknesses (tapered system):
 - .1 Base layer: 75mm.
 - .2 Upper layers: as required to create tapered slopes, as indicated. 2% (typical); 4% at drain sumps, and as indicated.
 - .6 Crickets: 4% slope.
 - .7 Square edges.
 - .8 Acceptable material:
 - .1 IKO Therm III, by IKO
 - .2 Sopra-ISO Plus, by Soprema
 - .3 Approved alternative.

2.9 COVER BOARD

- .1 Board and base sheet combination: Mineral fortified asphalt cover board with factory laminated modified bituminous base sheet, having the following properties and characteristics:
 - .1 Membrane: to CSA A123.23-15; Type B, Grade 3.
 - .2 Size: 2440mm x 915mm.
 - .3 Thickness: 7mm total.
 - .1 Mineral board: 4.8mm
 - .2 Membrane: 2.2mm.
 - .4 Acceptable material:
 - .1 Protectobase 180, by IKO.
 - .2 2-1 Soprasmart Board, by Soprema.
 - .5 Cover strips and patches: to CSA A123.23-15, Styrene- Butadiene Styrene (SBS) elastomeric polymer, prefabricated sheet; Type C, Grade 3, 2.5mm thick.
 - .1 Cut membrane into 250mm wide strips; for use at end joints of boards.

2.10 INSULATION AND COVER BOARD ADHESIVE

- .1 Insulation and cover board adhesive: two-part low-rise polyurethane foam adhesive:
 - .1 Millennium, by IKO.
 - .2 Duotack, by Soprema.
 - .3 Accessory: 5-gallon buckets filled with gravel to weigh down insulation and cover board.
 - .1 Alternative: Full membrane rolls or buckets of screws.

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2.11 BASE SHEET MEMBRANE

Roof Replacement – Phase 3

FBM Project No. 2024-014

- .1 Flashing membrane: to CSA A123.23-15, Styrene- Butadiene Styrene (SBS) elastomeric polymer, prefabricated sheet; Type B or C, Grade 3:
 - .1 Top and bottom surfaces: polyethylene / release film.
 - .2 Thickness: 2.5mm.
 - .3 Acceptable material:
 - .1 Armourbond Flash HD, by IKO
 - .2 Sopraply Flam Stick, by Soprema
 - .3 Approved alternative

2.12 CAP SHEET MEMBRANE

- .1 To be from the same manufacturer as the insulation cover board with factory applied base sheet.
- .2 Cap sheet membrane: to CSA A123.23-15, High performance Styrene-Butadiene-Styrene (SBS) elastomeric polymer prefabricated sheet, composite reinforcement, 4.0mm thick, having nominal weight of 250 g/m2; Type C, Grade 1.
 - .1 Top and bottom surfaces: granulated / polyethylene.
 - .2 Granule colour: Grey.
 - .3 Acceptable materials:
 - .1 Torchflex TP-HD-Cap, by IKO.
 - .2 Sopraply Traffic Cap, by Soprema.
 - .4 Flashing membrane: same material as cap sheet.
 - .5 Walkway: same material as cap sheet; red colour.

2.13 SEALERS

- .1 Plastic cement: asphalt, to CAN/CGSB-37.5.
 - .1 Acceptable material:
 - .1 Bakor 810-21.
 - .2 Karnak 19.
 - .3 BP Multi Purpose RC 315.
- .2 Sealing compound: to CAN/CGSB-37.29, rubber asphalt type.
 - .1 Acceptable material:
 - .1 Bakor 570-05.
 - .2 Sopramastic 200.
 - .3 Karnak 19.

2.14 METAL FLASHING

.1 Refer to Section 07 62 00 – Sheet Metal Flashing and Trim.

2.15 VENT FLASHING

- .1 Aluminum flashing sleeve, urethane insulated, with integral deck flange, and removable top cap. 300mm high, diameter to suit pipe diameter.
 - .1 Basis of Design: SJ-26, by Thaler.

2.16 ROUGH CARPENTRY

1. Refer to Section 06 10 00 – Rough Carpentry.

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2.17 BATT INSULATION

FBM Project No. 2024-014

- .1 Fibrous Mineral Wool Insulation: Non-combustible, lightweight, mineral wool batt insulation intended for exterior stud wall applications meeting the following minimum physical property requirements:
 - .1 ULC S702.1, Type 1.
 - .2 Width: to friction fit in stud spaces and cavities.
 - .3 Thickness: to suit stud spaces and cavities.
 - .4 Nominal density: 32 kg/m3.
 - .5 Fire resistance to CAN/ULC S114: non-combustible.
 - .6 Flame Spread = 0; smoke developed = 0; to CAN/ULC S102.
 - .7 Thermal resistance: RSI 2.47 (R-14) for 89mm thickness.
 - .8 Acceptable materials:
 - .1 Comfortbatt, by Rockwool.
 - .2 UltraBatt, by Thermafiber.

2.18 EXPANSION JOINT

- .1 Factory fabricated elastomeric expansion waterproofing joint, to prevent the penetration of water at building expansion and movement joints, torch grade, having the following characteristics:
 - .1 Capable of accommodating 3-way movements
 - .2 concurrently (horizontal, vertical, and shear).
 - .3 Elongation: 500% (ASTM D412 C).
 - .4 All details and connections factory fabricated by means of vulcanization.
 - .5 Tensile strength: 8.00 N/mm (ASTM D412 C).
 - .6 .Acceptable material:
 - .1 Flamline 20, by Situra Inc.
 - .2 Soprajoint Plus 20, by Soprema
 - .3 Approved alternative.

2.19 FASTENERS AND ACCESSORIES

- .1 Thermal Barrier: #12 screws and 75mm diameter (nominal) pressure distribution plates must meet Factory Mutual 4470 Standard for corrosion resistance and be acceptable by the board manufacturer.
 - .1 Acceptable manufacturers: DekFast, Trufast, OMG, or as recommended by manufacturer, in accordance with tested wind uplift requirements to CSA A123.21.
- .2 Masonry anchors: Pin bolts: light duty pin bolt anchor assembly comprised of corrosion resistant zinc/aluminum alloy anchor body with stainless steel pin; length to provide 38mm minimum embedment into existing masonry, 6mm (1/4") diameter.
 - .1 Standard of acceptance: Zamac Pin Bolt, by UCAN.
 - .2 For use with termination bar.
- .3 Plywood: per Section 06 10 00, Rough Carpentry.
- .4 Wood framing/blocking: per Section 06 10 00, Rough Carpentry.
- .5 Termination bar: Extruded aluminum, 25mm wide x 3mm thick x length to suit, with prepunched slotted holes at 150mm on center.
 - .1 Acceptable material: TB-125, by Trufast, fastened with #12 FM screws.
- .6 Fastener length and embedment into various substrates:

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- .1 40mm minimum embedment into lumber substrates.
- .2 40mm minimum embedment into masonry and concrete.
- .3 25mm minimum penetration beyond concealed side of plywood and metal deck substrates.

2.20 DRAINS

- .1 Acceptable material, complete with under deck clamps and metal dome.
 - .1 Zurn: model Z100
 - .2 Jay R. Smith; model 1010.
 - .3 Watts; model RD-100.
- .2 Drains supplied by the roofer and installed by a qualified plumber retained by the roofer

2.21 PAVERS

- .1 Precast concrete paving slabs: to CSA A231.2:
 - .1 Diamond pattern utility stones by Shaw Brick, 24" x 24" x 2" thick.
 - .2 97.6 kg/m2 minimum weight.
 - .3 For use at ladders Refer to drawings.
- .2 Underlayment: "pedestals" of 1-1/2" thick, 8"x8" extruded polystyrene, for use below pavers, at intersection of corners and edges.

Part 3 Execution

3.1 QUALITY OF WORK

- .1 Do examination, preparation and roofing Work in accordance with Roofing Manufacturer's Specification Manual and CRCA Roofing Specification Manual, particularly for fire safety precautions.
- .2 Do priming in accordance with manufacturer's written recommendations.
- .3 Only install as much roofing that can be completed watertight in one day.

3.2 PROTECTION OF IN-PLACE CONDITIONS

.1 Refer to Section 07 01 50, Preparation for Reroofing.

3.3 REMOVALS

.1 Refer to Section 07 01 50, Preparation for Reroofing.

3.4 EXAMINATION OF ROOF DECKS

- .1 Verification of Conditions:
 - .1 Inspect deck conditions including construction joints, roof drains, plumbing vents and ventilation outlets to determine readiness to proceed and immediately inform Architect in writing of any defects.
- .2 Under deck inspection:
 - .1 Do an under-deck inspection before starting work to verify where conduits and cables are attached direct to the deck.
 - .2 Drive screws up from below to identify these locations. Mark locations on the deck before driving any screws down and transfer locations from thermal barrier

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to insulation and insulation cover board layers as work progresses. The roofer is responsible for repair of any damaged services.

- .3 Evaluation and Assessment:
 - .1 Prior to beginning of work ensure:
 - .1 Decks are firm, straight, smooth, dry, free of snow, ice or frost, and swept clean of dust and debris. Do not use calcium chloride or salt for ice or snow removal.
- .4 Do not install roofing materials during rain or snowfall.

3.5 THERMAL BARRIER

- .1 Install gypsum deck board to steel deck's upper rib surface with specified fasteners and pressure distribution plates at the following rates per 1220mm x 12440mm board; Install in accordance with manufacturers' instructions:
 - .1 Both roof areas:
 - .1 Field zone: 12 fasteners.
 - .2 Edge and corner zones: 18 fasteners.

3.6 PRIMING OF THERMAL BARRIER

.1 Apply primer to thermal barrier substrate at the rate recommended by manufacturer and per CRCA specification.

3.7 VAPOUR BARRIER

- .1 Wood component covering: Prime plywood surfaces and install cold-applied membranes. Complete cold-applied membrane installation prior to proceeding with torch-applied vapour barrier membranes.
- .2 Torch specified base sheet vapour barrier onto primed surfaces.
- .3 Provide minimum side and end laps/seals, per manufacturer's requirements.
- .4 Properly secure flashings to their support, without sags, blisters, fish mouths or wrinkles.
- .5 Do work in accordance with manufacturer's recommendations.
- .6 Self-adhesive vapour barrier: install in accordance with manufacturer's instructions.

3.8 WOOD FRAMING AND BLOCKING

.1 Refer to Section 06 10 00 – Rough Carpentry.

3.9 WOOD COMPONENTS COVERING

.1 Prime plywood surfaces and install cold-applied membranes. Complete cold-applied membrane installation prior to proceeding with torch-applied membranes.

3.10 POLYISOCYANURATE INSULATION

- General:
 - .1 Install insulation in accordance with insulation manufacturer's installation instructions.
 - .2 Install insulation over the vapour barrier in multiple layers, as required to achieve slopes, as indicated.
 - .3 Place boards in firm contact with one another, with no gap greater than 6mm.
 - .4 Stagger end joints of boards, 305mm minimum.
 - .5 Offset side and end joints of top layers from joints of bottom insulation layer.
 - .6 Cut end pieces to suit.

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2. Adhesive application:

- .1 Install insulation with ribbons of the specified insulation adhesive. The ribbon width is to be 13-19mm as measured immediately upon exiting the nozzle.
- .2 Spacing of ribbons: in accordance with manufacturer's tested system to CSA A123.21, per reviewed submittals.
- .3 Set insulation immediately into fresh adhesive before it has started to skin over.
- .4 Immediately after setting the insulation in the adhesive, weight down each piece of insulation with specified weights until the adhesive is set.

3.11 COVER BOARD

- .1 General:
 - .1 Install in accordance with manufacturer's instructions.
 - .2 Butt boards tightly together.
 - .3 Install cover board with ribbons of the specified adhesive. The ribbon width is to be 13-19mm as measured immediately upon exiting the nozzle.
 - .4 Spacing of ribbons: in accordance with manufacturer's tested system to CSA A123.21, per reviewed submittals.
- .2 Board and base sheet combination:
 - .1 Heat-weld side laps.
 - .2 Heat weld cover strips continuously along board end joints.

3.12 EXPANSION JOINT

.1 Install joint membrane in accordance with manufacturer's instructions.

3.13 EXPOSED MEMBRANE ROOFING INSTALLATION

- .1 Cap sheet to be unrolled and left to relax for the minimum time specified by the manufacturer before being installed.
- .2 Base sheet flashing application:
 - .1 Prime wood surfaces at curbs, parapets, and walls.
 - .2 Install cold-applied membrane flashings over wood surfaces. Ensure that this work is completed prior to proceeding with torch-applied membranes.
 - .3 Complete installation of flashing base sheet stripping prior to installing membrane cap sheet.
 - .4 Provide 75 mm minimum side lap and seal.
 - .5 Properly secure flashings to their support, without sags, blisters, fish mouths or wrinkles.
 - .6 Do work in accordance with manufacturer's recommendations.
- .3 Cap sheet application:
 - .1 Starting at low point on roof, perpendicular to slope, unroll cap sheet, align and reroll from both ends.
 - .2 Unroll and torch cap sheet onto base sheet taking care not to burn membrane or its reinforcement.
 - .3 Lap sheets 75 mm minimum for side laps and 150 mm minimum for end laps. Offset joints in cap sheet 300 mm from those in base sheet.
 - .4 Application to be free of blisters, fishmouths and wrinkles.
 - .5 Do membrane application in accordance with manufacturer's recommendations.
 - .6 Degranulate all end and side laps which are not factory degranulated.
 - .7 Ensure that there is some bleed out of bitumen at laps.

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.4 Roof penetrations:

.1 Install roof penetration flashings and seal to membrane in accordance with the manufacturer's recommendations and details and CRCA details.

3.14 VENT FLASHING

- .1 Install flashing in accordance with manufacturer's instructions.
- .2 Set deck flange in bed of mastic. Strip in flange with base and cap sheet.

3.15 DRAINS

- .1 Install drains and domes.
- .2 Coordinate removals and new installation work with HRCE.

3.16 FIELD QUALITY CONTROL

- .1 Periodic site review of roofing application will be carried out by Architect.
- .2 Site reviews and reports by a manufacturer's representative, as required for specified warranty.

3.17 CLEANING

- .1 Remove bituminous markings from finished surfaces.
- .2 In areas where finished surfaces are soiled caused by work of this section, consult manufacturer of surfaces for cleaning advice and complying with their documented instructions.
- .3 Repair or replace defaced or disfigured finishes caused by work of this section.
- .4 Remove existing debris from drain piping. Ensure all drains and piping are clean and cleared of all construction material and debris after roofing work is complete.

END OF SECTION

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Part 1 General

1.1 REFERENCES

- .1 ASTM International (ASTM)
 - .1 ASTM A653/A653M-15e1, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .2 ASTM D4586-07(2012) e1, Standard Specification for Asphalt Roof Cement, Asbestos-Free.
 - .3 ASTM F1667-17, Standard Specification for Driven Fasteners: Nails, Spikes, and Staples.
 - .4 ASTM F468-15, Standard Specification for Nonferrous Bolts, Hex Cap Screws, Socket Head Cap Screws, and Studs for General Use.
- .2 Canadian Roofing Contractors Association (CRCA)
 - .1 Roofing Specifications Manual (2012).
- .3 Sheet Metal and Air Conditioning Contractors' National Association (SMACNA)
 - .1 SMACNA Architectural Sheet Metal Manual, 7th Edition.

1.2 ADMINISTRATIVE REQUIREMENTS

- .1 Coordination:
 - .1 Coordinate work of this Section with interfacing and adjoining Work for proper sequencing of each installation and to provide positive weather resistance, durability of the work, and protection of materials and finishes.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submittals shall conform to the requirements of Division 01 General Requirements:
- .2 Submit manufacturer's printed product literature, specifications and datasheets, and include product characteristics, performance criteria, physical size(s), finish(es) and constraints.
- .3 Submit shop drawings showing proposed method of shaping, forming, jointing, fastening, and application of flashing and sheet metalwork.
- .4 Submit warranty.

1.4 QUALITY CONTROL

- .1 General: Fabricate and install sheet metal flashing and trim in accordance with SMACNA Architectural Sheet Metal Manual, and to the CRCA Roofing Specifications Manual.
- .2 Sheet Metal and Metal Flashing: Comply with the applicable recommendations and guidelines of the CRCA Canadian Roofing Reference Manual, CRCA Specification Manual, and applicable CRCA technical bulletins.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Stack pre-formed and pre-finished material in manner to prevent twisting bending and rubbing.
- .2 Provide protection for finished surfaces.
- .3 Prevent contact of dissimilar metals during storage and protect from acids, flux, and other corrosive materials and elements
- .4 Protect prefinished surfaces from scratches and from rust staining.

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1.6 WARRANTY

- .1 Contractor agrees to correct any deficiencies of labour or material found in the work performed for a period of 5 years from the date of Substantial Performance.
- .2 Provide Warranty for sheet metal flashing and trim to include in maintenance manuals.

Part 2 Products

2.1 PREFINISHED STEEL FLASHING

- .1 Hot dip galvanized steel sheet (pre-finished): Type A commercial quality to ASTM A653/A653M, with Z275 designation zinc coating.
 - .1 Class: F1S-Finished one side (manufacturer's standard prime finish on unexposed face).
 - .2 Thickness: minimum 0.70 mm (24 gauge) base galvanized metal thickness.
 - Manufacturer's Coil Coating System: silicone modified polyester (SMP) system, applied over a zinc phosphate pre-treatment, and high-performance, flexible primer.
 - .1 Standard of Acceptance:
 - .1 Vicwest WeatherXL.
 - .4 Colours: to match existing metal cladding.

2.2 ACCESSORIES

- .1 Isolation coating: alkali resistant bituminous paint.
- .2 Roofing Cement: to ASTM D4586, asphalt-based, asbestos free.
- .3 Sealants:
 - .1 Mastic Sealant: polyisobutylene; non-hardening, non-skinning, non-drying, non-migrating sealant.
 - .2 Elastomeric Sealant: Generic type recommended by sheet metal manufacturer and fabricator of components being sealed and complying with requirements for joint sealants.
- .4 Cleats/hook-strips: same material as PRE-FINISHED STEEL FLASHING.
- .5 Fasteners: of same material as sheet metal, to ASTM F1667, as recommended by sheet metal manufacturer; non-corrosive. Finish of exposed parts to match material being fastened.
- .6 Roofing Nails: 11 gauge hot dipped galvanized steel nails with 23mm (7/16") diameter flat head; 38mm length.
 - .1 Standard of acceptance: Standard Roofing Nail, by Tree Island Steel.
 - .2 For use at roof edge flashing to secure cleat to wood blocking.
- .7 Nylon Head Fasteners: #12 stainless steel self-drilling screws with integral nylon heads colour matched to pre-finished sheet metal; 38mm length.
 - .1 Standard of acceptance: Master Drillers, by Leland Industries.
- .8 Closures: Foam and metal closures to suit profile and thickness of existing metal cladding.
- .9 Sub-girts: Minimum 1.3 mm (18 gauge) base metal thickness, galvanized steel to ASTM A653/A653M, Grade 230, hot dipped galvanized steel after fabrication with a zinc coating of not less than 275 g/m²; profiled to accept exterior sheet with structural

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attachment to building frame. Exposed materials of wall assembly to match panel finish and colour.

- .1 Z-bars: Continuous, 25mm wide with 38mm vertical legs.
- .2 For use at metal cladding areas (re-installation of existing metal cladding).
- .10 Washers: of same material as sheet metal, 1 mm thick with rubber packings.
- .11 Adhesives: Type recommended by flashing sheet metal manufacturer for waterproof and weather resistant seaming and adhesive application of flashing sheet metal.
- .12 Prefinished Steel Accessories: Provide non-corrosive sheet metal clips, straps, anchoring devices, and similar accessory units as required for installation of Work. Accessories shall match or be compatible with material being installed; size and thickness as required.
- .13 Touch-up paint: as recommended by prefinished material manufacturer.

2.3 FABRICATION

- .1 Roofing: Fabricate flashing and other sheet metal work in accordance with applicable CRCA 'FL' series details, and as indicated.
- .2 Fabricate in accordance with SMACNA Architectural Sheet Metal Manual.
- .3 Form sections square, true, and accurate to size, free from distortion and other defects detrimental to appearance or performance.
- .4 Form sections to profiles indicated for metal caps and cleats.
- .5 All straight run joints shall be S-Lock in roof flashings.
- .6 Make joints to allow for thermal movement, space S-Lock joints at 3000 mm maximum centers.
- .7 Strengthen free edges of metal flashings by folding to form a 13-mm hem.
- .8 Make joints for corners and intersections with standing seams except where exposed of pre-finished metal when seams shall be flat locked.
- .9 All bends machine made. Form sections square, true, and accurate to size, free from distortion and other defects detrimental to appearance or performance.

2.4 GUTTERS AND DOWNSPOUTS

- .1 Form gutters, downspouts from specified prefinished steel sheet.
- .2 Sizes and profiles:
 - .1 Downspouts: 125mm x 125mm.
 - .2 Gutters: 150mm width, rectangular 'Style A' profile, as indicated below:



.3 Brackets, hangers, and straps: formed from 3mm thick galvanized steel sheet.

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.4 Outlets: 100mm long, sized to suit downspout.

Part 3 Execution

3.1 EXAMINATION

- .1 Check mounting and counterflashing of mechanical items and report any defect to the Consultant.
- .2 Verify that existing wood blocking at parapets is in good condition and adequately secured. Notify consultant if decayed wood is encountered, or if wood is poorly secured.
- .3 Verify that solid wood blocking or sheathing provided to back-up all flashings and that all nails, screws are set and wood provides a smooth flat plane.
- .4 Commencement of Work means acceptance of existing conditions.

3.2 INSTALLATION

- .1 Install sheet metal flashing and trim in accordance with applicable CRCA 'FL' series details, SMACNA's Architectural Sheet Metal Manual, and as indicated.
- .2 Verify shapes and dimensions of surfaces being covered before fabricating sheet metal.
- .3 Where possible, secure flashings to supporting building elements with concealed continuous cleats or locking strips. Use hot dipped galvanized steel locking strips / cleats for prefinished steel flashing.
- .4 Anchor units of work securely in place, providing for thermal expansion of metal units. Conceal fasteners where possible and set units true to line and level.
- .5 Install work with laps, joints, and seams that are watertight and weatherproof.
- Install exposed sheet metal work that is without oil canning, buckling and tool marks and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and to result in waterproof and weatherproof performance.
- .7 Roof Edge Flashing:
 - .1 Secure continuous to plywood with specified nails or screws at 100mm o.c. spacing, staggered.
- .8 Expansion Provisions:
 - .1 Provide for the thermal expansion of exposed sheet metal Work.
 - .2 Space movement joints at maximum of 3050 mm, with no joints allowed within 610 mm of a corner or intersection, or as otherwise indicated per Drawings.
 - .3 Provide slip joints to allow for movement.
- .9 Lock Seams:
 - .1 Fabricate non-moving seams in sheet metal with flat lock seams.

.10 Separations:

.1 Separate metal from non-compatible metal or corrosive substrates by coating concealed surfaces, at locations of contact, with bituminous paint or other permanent separation as recommended by the manufacturer.

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3.3 CLEANING

- .1 Progress Cleaning: clean in accordance with HRCE's Requirements. Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with HRCE's Requirements. Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .3 Manage and dispose of demolition and construction waste materials in accordance with Division 01 General Requirements.

3.4 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by Work of this Section.

END OF SECTION



April 4, 2024

HRCE – Halifax Regional Centre for Education 33 Spectacle Lake Drive Dartmouth, Nova Scotia B3B 1X7

Re: Hazardous Building Materials Assessment (Management)

Hammonds Plains Consolidated, 2180 Hammonds Plains Road, Hammonds Plains, NS Pinchin File: 336128.013

HRCE – Halifax Regional Centre for Education (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment of Hammonds Plains Consolidated located at 2180 Hammonds Plains Road, Hammonds Plains, NS.

Pinchin performed the assessment between March 5 and March 7, 2024. The assessor was unaccompanied during the assessment. The assessment was completed outside of regular school hours when teachers and students were not present. The assessed area was only occupied by maintenance staff at the time of the assessment.

The objective of the assessment was to document the locations of specified hazardous building materials, evaluate their condition and develop corrective action plans as required. This assessment is only to be used for the purposes of long-term management and routine maintenance. The results of this assessment are not to be used for construction, renovation, demolition or project tendering purposes.

The **assessed area** consisted of all interior and exterior areas of the building accessible with a 6-foot ladder, excluding the roof.

The assessment was performed to establish the type of specified hazardous building materials, locations and approximate quantities incorporated in the structure(s) and its finishes.

For the purpose of the assessment and this report, hazardous building materials are defined as follows:

- Asbestos
- Lead
- Silica
- Mercury
- Polychlorinated Biphenyls (PCBs)
- Mould and Water Damage

April 4, 2024 Hammonds Plains Consolidated, 2180 Hammonds Plains Road, Hammonds Plains, NS Pinchin File: 336128.013

HRCE – Halifax Regional Centre for Education

1.0 RECOMMENDATIONS

1.1 **On-going Management and Maintenance**

The following recommendations regard on-going management and maintenance work involving the ACM identified.

1.1.1 Asbestos

Inspect all accessible confirmed and presumed ACM at reasonable intervals and update the written documentation annually, as required by provincial guidelines.

Update the asbestos inventory report for all new information obtained (i.e., new materials, change of condition, abatement performed).

Remove ACM before alteration or maintenance work if ACM may be disturbed. Follow appropriate asbestos precautions for the classification of work as per applicable regulations and guidelines.

Asbestos-containing materials must be disposed of at a landfill approved to accept asbestos waste.

1.1.2 Lead

For paints identified as having low levels of lead (i.e., equal to or above 0.009% (90 mg/kg) but less than or equal to the EACC guideline of 0.1% (1,000 mg/kg) for lead-containing paints special precautions are not recommended unless aggressive disturbance (grinding, blasting, torching) is planned.

Exposure from construction disturbance of paints containing lead less than 0.009% (90 mg/kg) is assumed to be insignificant.

Items painted with paints containing elevated levels of lead may be a hazardous waste. Test lead-painted materials for leachable lead and other metals prior to disposal. Metallic components coated with lead paint do not require leachate testing and can be disposed of as non-hazardous construction and demolition (C&D) waste.

Lead-containing items should be recycled when taken out of service.

1.1.3 Silica

Disturbance of silica-containing products during maintenance activities may result in excessive exposures to airborne silica, especially if performed indoors and dry. Cutting, grinding, drilling or demolition of materials containing silica should be completed only with proper respiratory protection and other worker safety precautions that comply with per applicable regulations and guidelines.

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Hammonds Plains Consolidated, 2180 Hammonds Plains Road, Hammonds Plains, NS HRCE – Halifax Regional Centre for Education

April 4, 2024

Pinchin File: 336128.013

1.1.4 Mercury

Do not break lamps. Recycle and reclaim mercury from fluorescent lamps when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable regulations.

1.2 Construction and Demolition

This assessment report does not provide sufficient detail to support renovation and demolition work. Therefore, perform a detailed intrusive assessment before building renovation or demolition operations. The assessment should include destructive testing (e.g., coring, removal of building finishes and components), and sampling of any other materials not tested (e.g., roofing materials, caulking, mastics).

2.0 BACKGROUND INFORMATION

2.1 Assessed Area Description Summary

Description Item	Details
Building Use	School
Floors Above Grade	One plus penthouse mechanical room
Floors Below Grade	Partial basement
Total Area (square feet)	52,519
Year of Construction	Phase A: 1967
	Phase B: Year unknown, post 1967
Structure	Structural steel, concrete block
Exterior Cladding	Brick
HVAC	Boiler with radiators, mechanical room air handling units
Roof	Unknown (not assessed)
Flooring	Vinyl floor tiles, ceramic tile
Wall and Ceiling Finishes	Drywall, concrete block, lay-in ceiling tiles, Tectum wall panels

2.2 Existing Reports

2.2.1 Review of Previous Reports

A report provided by HRCE pre-dated 2000 and was not utilized, based on significant regulatory changes since the report publication date, and the likelihood that site conditions, including renovations, have resulted in significant changes for the reported information.

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3.0 FINDINGS

Any quantities listed in this report or data tables are estimated based on visual approximations only and are subject to variation.

3.1 Asbestos

The following table summarizes the materials evaluated for asbestos in the assessed area. For details on approximate quantities, condition, friability, accessibility, and locations of hazardous building materials; refer to the Hazardous Material Summary / Sample Log and Confirmed and Presumed Report in Appendices V and VI.

Any quantities listed in this report or data tables are estimated based on visual approximations only and are subject to variation.

Sample Number	Material Description	Type of Asbestos	Confirmed Hazard	Total Quantity Present	Material Specific Notes
S0001 ABC	Ceiling, Other Fireproofing (Fibrous) Grey	None Detected	No	995 SF	
S0002 ABC	Piping Domestic Water (Hot and Cold) Parging Cement	Chrysotile	Yes	8 EA	
S0003 ABC	Duct Parging Cement	None Detected	No	8 SF	
S0004 ABC	Duct Preformed Block White	None Detected	No	40 SF	
S0005 ABCDE FG	Ceiling, Wall Drywall and joint compound	None Detected	No	8,927 SF	
S0006 ABC	Other Firestopping (mastic) Red	None Detected	No	1 SF	
S0007 ABC	Other Door Caulking Brown	Chrysotile	Yes	7 LF	
S0008 ABC	Duct Mastic, Grey	None Detected	No	537 LF	
S0009 ABC	Floor Vinyl Floor Tile and Mastic 12" off white with grey and cream flecks	None Detected	No	8,399 SF	
S0010 ABC	Other Caulking Black butyl tape	None Detected	No	17 EA	
S0011 ABC	Floor Vinyl Floor Tile and Mastic 12" brown with brown and cream flecks	Chrysotile	Yes	1,626 SF	1

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Sample Number	Material Description	Type of Asbestos	Confirmed Hazard	Total Quantity Present	Material Specific Notes
S0012 ABC	Floor Vinyl Floor Tile and Mastic 12" white with light blue flecks	Chrysotile	Yes	3,495 SF	1
S0013 ABC	Floor Vinyl Floor Tile and Mastic 12" dark green with flecks	Chrysotile	Yes	665 SF	1
S0014 ABC	Floor Vinyl Floor Tile and Mastic 12" medium grey with grey and white flecks	Chrysotile	Yes	1,920 SF	1
S0015 ABC	Floor Vinyl Floor Tile and Mastic 12" beige with brown streaks	Chrysotile	Yes	2,213 SF	1
S0016 ABC	Floor Vinyl Floor Tile and Mastic 12" medium green with white and green flecks	Chrysotile	Yes	2,583 SF	1
S0017 ABC	Floor Vinyl Floor Tile and Mastic 12" tan with beige flecks	Chrysotile	Yes	434 SF	1
S0018 ABC	Floor Vinyl Floor Tile and Mastic 12" teal with green and white flecks	Chrysotile	Yes	1,090 SF	1
S0019 ABC	Other Sink Mastic, Grey	None Detected	No	7 EA	
S0020 ABC	Floor Vinyl Floor Tile and Mastic 9" green with white streaks	Chrysotile	Yes	2,200 SF	2
S0021 ABC	Floor Vinyl Floor Tile and Mastic 12" medium blue with flecks	None Detected	No	165 SF	
S0022 ABC	Floor Vinyl Floor Tile and Mastic 12" blue with dark blue and white flecks	None Detected	No	2,500 SF	
S0023 ABC	Floor Vinyl Floor Tile and Mastic 12" white with beige flecks	None Detected	No	691 SF	
S0024 ABC	Floor Vinyl Floor Tile and Mastic 12" light brown with brown and cream flecks	None Detected	No	3,940 SF	
S0025 ABC	Floor Vinyl Floor Tile and Mastic 12" light beige with brown and white flecks	None Detected	No	275 SF	

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Sample Number	Material Description	Type of Asbestos	Confirmed Hazard	Total Quantity Present	Material Specific Notes
S0026 ABC	Floor Vinyl Floor Tile and Mastic 12" off-white with red streaks	Chrysotile	Yes	1,250 SF	1
S0027 ABC	Floor Vinyl Floor Tile and Mastic 12" yellow with red streaks	Chrysotile	Yes	355 SF	2
S0028 ABC	Wall Caulking Black	Chrysotile	Yes	24 LF	
S0029 ABC	Floor Vinyl Floor Tile and Mastic 12" pale green with light green streaks	Chrysotile	Yes	718 SF	2
S0030 ABC	Ceiling Drywall and joint compound	None Detected	No	840 SF	
S0031 ABC	Floor Vinyl Floor Tile and Mastic 12" light blue with flecks	None Detected	No	490 SF	
S0032 ABC	Other Door Caulking White	None Detected	No	25 LF	
S0033 ABC	Other Door Caulking Brown	None Detected	No	18 LF	
V9000	Floor Vinyl Floor Tile and Mastic 12" grey with grey and white flecks	Confirmed Asbestos	Yes	400 SF	3
V9500	Duct Mastic Painted white	Presumed Asbestos	Yes	120 LF	4
V9500	Floor Mortar Ceramic tile thinset	Presumed Asbestos	Yes	3,931 SF	
V9500	Wall Mortar Ceramic tile thinset	Presumed Asbestos	Yes	7,035 SF	
V0000	Ceiling Ceiling Tiles (lay-in) 2'x4' pinhole and fleck, 2'x4' laminated drywall	Non-Asbestos	No	Throughout	
V0000	Floor Vinyl Floor Tile and Mastic 12" dark blue with flecks	Non-Asbestos	No	680 SF	5
V0000	Other Caulking Silicone	Non-Asbestos	No	Throughout	

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Material Specific Notes:

- Mastic is asbestos-containing, and vinyl floor tiles are non-asbestos; however, due to the contamination of the vinyl tiles from the mastic, the tiles should be considered asbestoscontaining for removal purposes.
- Vinyl floor tile and mastic were both determined to be asbestos-containing.
- Vinyl floor tiles and mastic were not sampled but are considered asbestos-containing based on homogenous installation with the sampled vinyl floor tiles present in the location (sample S0016).
- Unable to verify colour of duct mastic due to height.
- Vinyl floor tiles and mastic were not sampled but are considered non-asbestos based on homogenous installation with the sampled vinyl floor tiles present in the location (sample \$0031).

General Notes:

Materials identified as Sample Number V9500 were either observed to be present or based on the construction of the building/equipment are likely present in concealed locations. These materials have not been sampled and are presumed to contain asbestos based on historical known use of asbestos. Sampling of these materials may be completed prior to disturbance.

Materials identified as Sample Number V0000 were determined to be non-asbestos based on the manufacture date and known end of use of asbestos in these products.

3.1.1 Excluded Asbestos Materials

The following is a list of materials which may contain asbestos and were excluded from the assessment. These materials are presumed to contain asbestos until otherwise proven to be non-asbestos by sampling and analysis:

- Roofing felts and tar, mastics
- Floor levelling compound
- Electrical components
- Refractory materials and insulations in boilers, incinerators, and stacks
- Mechanical packing, ropes, and gaskets
- Fibre-reinforced paints and coatings
- Soffit and fascia boards
- Fire resistant doors

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- Ropes and gaskets in cast-iron bell and spigot joints
- Sealants on pipe threads

3.2 Lead

Refer to the Hazardous Material Summary / Sample Log and Confirmed and Presumed Report in Appendices V and VI for details on locations, condition and approximate quantities on paints sampled and their locations.

Sample Number	Material Description	Concentration	Confirmed Hazard	Total Quantity Present	Notes
L0001	Wall Concrete (poured) White	410 mg/kg	Yes	6,460 SF	
L0002	Wall Drywall and joint compound White	<81 mg/kg	No	4,680 SF	
L0003	Wall Masonry White	<80 mg/kg	No	82,857 SF	
L0004	Wall Masonry Off-white	150 mg/kg	Yes	22,675 SF	
L0005	Wall Masonry Light grey	<80 mg/kg	No	980 SF	

General Notes:

Results less than or equal to 0.1% (1,000 mg/kg), but equal to or greater than 0.009% (90 mg/kg), are considered low-level lead paints or surface coatings in accordance with the EACC guideline.

Paints containing lead less than 0.009% (90 mg/kg) is assumed to be insignificant.

3.2.1 Lead Products and Applications

Refer to the Hazardous Material Summary / Sample Log and Confirmed and Presumed Report for details on lead-products including their locations and quantities.

٠	Sample Number	Material Description	Confirmed Hazard	Total Quantity Present	Notes
	V9500	Batteries In Emer. Lights	Yes	31 EA	
	V9000	Bell And Spigot Fittings	Yes	2 EA	

General Notes:

Items identified as Sample Number V9500 were observed to be present but could not be definitively determined to contain lead (e.g., inaccessible batteries).

Items identified as Sample Number V9000 were observed to be present and were determined to contain lead based on visual observation (e.g., bell and spigot joints, lead shielding and flashing).

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3.2.2 Excluded Lead Materials

Lead may be present in a number of materials which were not assessed and/or sampled. The following materials, where found, should be considered to contain lead.

- Electrical components, including wiring connectors, grounding conductors, and solder
- Solder on pipe connections
- Glazing on ceramic tiles

3.3 Silica

Crystalline silica is a presumed component of the following materials:

- Concrete
- Masonry and mortar
- Ceramic tiles and grout
- Refractory or ceramic materials

3.4 Mercury

Refer to the Hazardous Material Summary / Sample Log and Confirmed and Presumed Report in Appendices V and VI for details on mercury-containing products including their locations and quantities.

Sample Number	Material Description	Confirmed Hazard	Total Quantity Present	Notes
V9000	Light Fixture	Yes	60 EA	
V9500	Light Fixture	Yes	406 EA	

General Notes:

Items identified as Sample Number V9500 were observed to be present but could not be definitively determined to contain mercury (e.g., inaccessible lamps and thermostats).

Items identified as Sample Number V9000 were observed to be present and were determined to contain mercury based on visual observation (e.g., labelled lamps and ampules in thermostats).

3.5 Polychlorinated Biphenyls

Refer to the Hazardous Material Summary / Sample Log and Confirmed and Presumed Report in Appendices V and VI for details on PCB-products including their locations and quantities.

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Sample Number	Material Description	Concentration	Confirmed Hazard	Total Quantity Present	Notes
P0001	Caulking Black	<0.5 mg/kg	No	24 LF	
V0000	Light Ballasts		No		
V0000	Transformer		No		

General Notes:

Materials identified as Sample Number V0000 were determined to be non-PCB based on previous analytical results, the manufacture date and regulated restrictions of PCBs. It can also include items that historically may have contained PCBs; however, have been visually identified as non-PCB types (e.g., LED light fixtures).

3.5.1 Excluded PCB Materials

PCBs are known to be present in several materials and equipment which were not assessed or sampled. The following materials, where found, should be presumed to contain PCBs until sampling proves otherwise.

- Capacitors within or associated with electrical equipment
- Caulking and sealants (except where sampled)
- Paints

4.0 METHODOLOGY

Pinchin conducted a room-by-room assessment (rooms, corridors, service areas, exterior, etc.) to identify the hazardous building materials as defined in the scope.

The assessment was limited to non-intrusive testing. Concealed spaces such as those above solid ceilings and within shafts and pipe chases were accessed via existing access panels only. Destructive testing of flooring was not conducted (under carpets or multiple layers of flooring). Demolition of walls, solid ceilings, structural items, interior finishes or exterior building finishes, to determine the presence of concealed materials was not conducted. Sampling of roofing materials was not conducted.

For further details on the methodology including test methods and evaluation criteria, refer to Appendix III.

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5.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

- 1. Nova Scotia Occupational Safety General Regulation (N.S. Reg. 53/2013).
- 2. A Guide to Removal of Friable Asbestos-Containing Material.
- 3. A Guide to Assessment and Management of Asbestos in the Workplace.
- Asbestos Waste Management Regulations, N.S. Reg. 53/95.
- 5. Lead in the Workplace: A Guide to Working with Lead, revised January 18, 2019.
- 6. The Environmental Abatement Council of Canada (EACC) Lead Guideline for Construction, Renovation, Maintenance or Repair.
- 7. Guidelines for Disposal of Contaminated Solids in Landfills.
- Nova Scotia Environment Act, 1994-95.
- 9. Mercury Diversion Standard, N.S. Reg. 161/2018.
- 10. PCB Management Regulations, N.S. Reg. 163/97.
- 11. PCB Regulations, SOR/2008-273, Canadian Environmental Protection Act.
- 12. Surface Coating Materials Regulations, SOR/2016-193, Canada Consumer Product Safety Act.
- 13. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.
- Mould Guidelines for the Canadian Construction Industry, Standard Construction
 Document CCA 82 2004 (Revised 2018), Canadian Construction Association.

6.0 LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

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April 4, 2024 Pinchin File: 336128.013

7.0 CLOSURE

Contact the undersigned should you have any questions.

Sincerely,

Pinchin Ltd.

Prepared by: Reviewed by:

Ashley Penney Project Coordinator 782.640.1015

apenney@pinchin.com

mharrett@pinchin.com

Reviewed by:

Jackson Munro, BA, C.E.T.

Senior Project Technologist

902.461.9999

jmunro@pinchin.com

Michael Harrett, C.E.T. Practice Leader, Hazardous Materials Ontario and Atlantic 613.881.0762

Encl: APPENDIX I Drawings

APPENDIX II-A Asbestos Analytical Certificates
APPENDIX II-B Lead Analytical Certificates
APPENDIX II-C PCB Analytical Certificates

APPENDIX III Methodology

APPENDIX IV Location Summary Report

APPENDIX V Hazardous Materials Summary Report / Sample Log

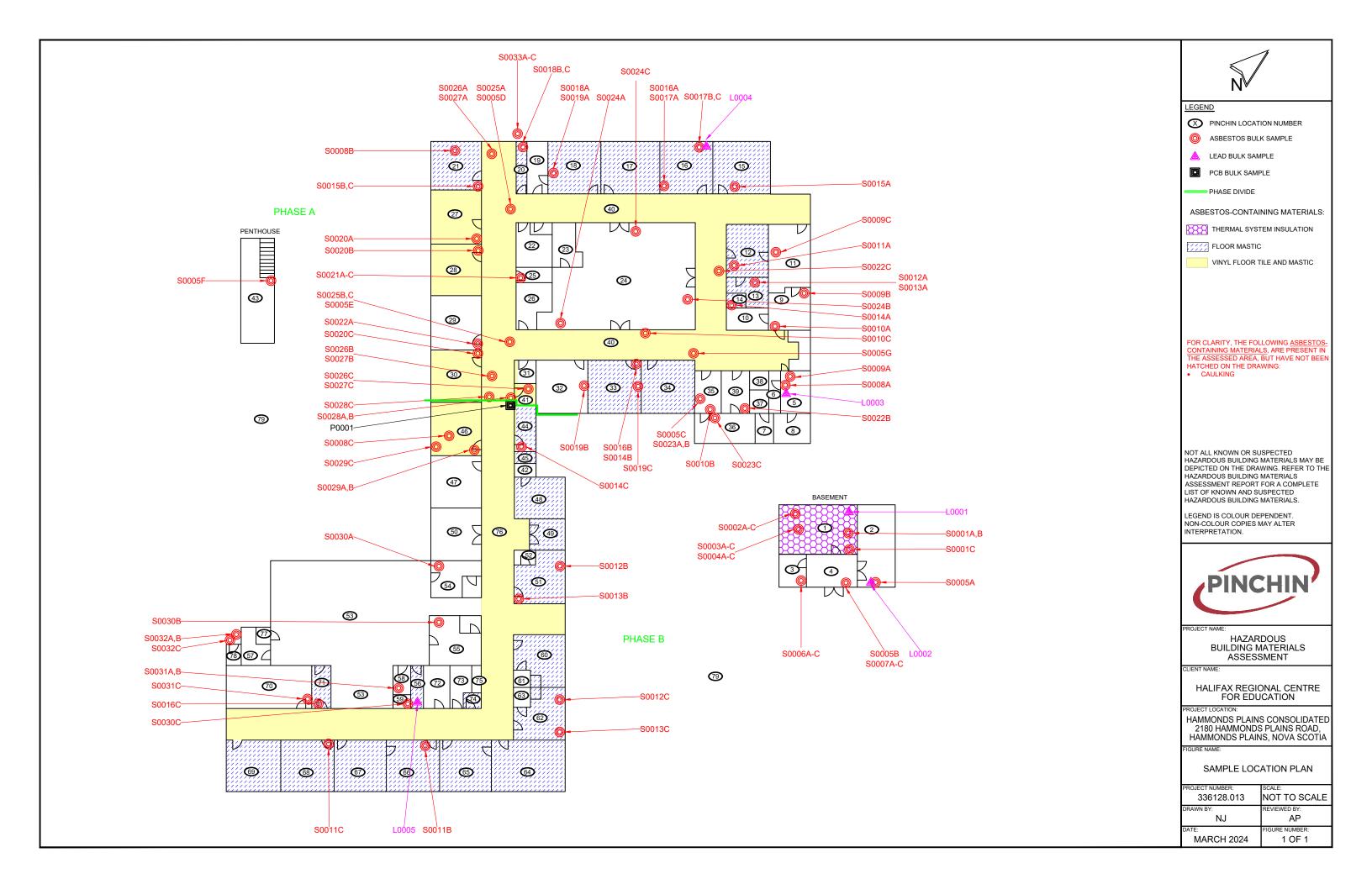
APPENDIX VI Confirmed and Presumed Report

APPENDIX VII Photographs

Template: Master Template HBMA Management, HMIS, HAZ April 18, 2023

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APPENDIX I Drawings



APPENDIX II-A Asbestos Analytical Certificates



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309798

Analyst(s): J. Stapleton / R. Janssen

Date Received: March 8, 2024 Samples Submitted: 34
Date Analyzed: March 12, 2024 Phases Analyzed: 34

The Pinchin Ltd. Dartmouth asbestos laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 201032-0) for the 'EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2017. The Pinchin asbestos laboratory uses the aforementioned methods of analysis.

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

This report relates only to the items tested.

This report relates only to the items tested and is valid only when signed with a protected, authorized, electronic signature. This report may not be reproduced, except in full, without the written approval of Pinchin Ltd. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government.

Internal verification studies, quality assurance / control data and laboratory documentation on measurement uncertainty are available upon request.



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309798

Date Analyzed: March 12, 2024

SAMPLE	SAMPLE	% COMPOS	ITION (VISUAL ESTIMATE)	
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER	
S0001A Ceiling, All, Fireproofing	Homogeneous, white, fibrous material.	None Detected	Man-Made Vitreous Fibres	> 75%
(fibrous), Grey, Loc:1, Boiler Room			Non-Fibrous Material	10-25%
S0001B Ceiling, All, Fireproofing	Homogeneous, white, fibrous material.	None Detected	Man-Made Vitreous Fibres	> 75%
(fibrous), Grey, Loc:1, Boiler Room			Non-Fibrous Material	10-25%
S0001C Ceiling, All, Fireproofing	Homogeneous, white, fibrous material.	None Detected	Man-Made Vitreous Fibres	> 75%
(fibrous), Grey, Loc:1, Boiler Room			Non-Fibrous Material	10-25%
S0002A Piping, Domestic Water (hot And Cold), Parging Cement, Loc:1, Boiler Room	Homogeneous, light grey, soft, parging cement.	Chrysotile 5	50-75% Non-Fibrous Material	25-50%
S0002B Piping, Domestic Water (hot And Cold), Parging Cement, Loc:1, Boiler Room			Not Analyzed	
Comments:	Analysis was stopped due t	o a previous positive result.		
S0002C Piping, Domestic Water (hot And Cold), Parging Cement, Loc:1, Boiler Room Comments:	Analysis was stopped due t		Not Analyzed	



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309798

Date Analyzed: March 12, 2024

SAMPLE	SAMPLE	% COMPOSITION (VISUAL ESTIMATE)				
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER	OTHER		
S0003A Duct, Boiler Feed Water, Parging Cement, Loc:1, Boiler Room	Homogeneous, grey, soft, parging cement.	None Detected	Man-Made Vitreous Fibres Non-Fibrous Material	25-50% 50-75%		
Comments:	Man-made vitreous fibre ins	ulation and jacketing are pres	ent on the surface of this samp	ole.		
S0003B Duct, Boiler Feed Water, Parging Cement, Loc:1,	Homogeneous, grey, soft, parging cement.	None Detected	Man-Made Vitreous Fibres Non-Fibrous Material	25-50% 50-75%		
Boiler Room						
Comments:	Man-made vitreous fibre ins	sulation and jacketing are pres	ent on the surface of this samp	ole.		
S0003C Duct, Boiler Feed Water,	Homogeneous, grey, soft, parging cement.	None Detected	Man-Made Vitreous Fibres	25-50%		
Parging Cement, Loc:1, Boiler Room			Non-Fibrous Material	50-75%		
Comments:	Man-made vitreous fibre ins	sulation and jacketing are pres	ent on the surface of this samp	ole.		
S0004A Duct, Combustion Air,	Homogeneous, peach, chalky material with fibres.	None Detected	Man-Made Vitreous Fibres	0.5-5%		
Preformed Block, White, Loc:1, Boiler Room			Synthetic Fibres Non-Fibrous Material	5-10% > 75%		
S0004B Duct, Combustion Air,	Homogeneous, peach, chalky material with fibres.	None Detected	Man-Made Vitreous Fibres	0.5-5%		
Preformed Block, White, Loc:1, Boiler Room			Synthetic Fibres Non-Fibrous Material	5-10% > 75%		
S0004C Duct, Combustion Air,	Homogeneous, peach, chalky material with fibres.	None Detected	Man-Made Vitreous Fibres	0.5-5%		
Preformed Block, White, Loc:1, Boiler Room			Synthetic Fibres Non-Fibrous Material	5-10% > 75%		
S0005A Wall, All, Drywall And Joint Compound, Loc:2, Sprinkler Room	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material	> 75%		



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309798

Date Analyzed: March 12, 2024

SAMPLE	SAMPLE	% COMPOSITION (VISUAL ESTIMATE)			
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER		
S0005B Wall, Exterior, Drywall And Joint Compound, Loc:4, Basement Entryway	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material	> 75%	
S0005C Wall, Interior, Drywall And Joint Compound, Loc:35, Copier Room	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material	> 75%	
S0005D Ceiling, Drywall And Joint Compound, Loc:40, Hallway	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material	> 75%	
S0005E Ceiling, Drywall And Joint Compound, Loc:40, Hallway	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material	> 75%	
S0005F Wall, All, Drywall And Joint Compound, Loc:43, Air Handling Room	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material	> 75%	
S0005G Ceiling, Drywall And Joint Compound, Loc:40, Hallway	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material	> 75%	
S0006A Fire Stop, Firestopping (mastic), Red, Loc:3,	Homogeneous, red, mastic material.	None Detected	Man-Made Vitreous Fibres Mica	0.5-5% 0.5-5%	
Electrical Room			Other Non-Fibrous	> 75%	
S0006B Fire Stop, Firestopping	Homogeneous, red, mastic material.	None Detected	Man-Made Vitreous Fibres	0.5-5%	
(mastic), Red, Loc:3,			Mica	0.5-5%	
Electrical Room			Other Non-Fibrous	> 75%	



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309798

Date Analyzed: March 12, 2024

SAMPLE	SAMPLE	% COMPOSITION (VISUAL ESTIMATE)		
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER	
S0006C Fire Stop, Firestopping (mastic), Red, Loc:3,	Homogeneous, red, mastic material.	None Detected	Man-Made Vitreous Fibres Mica	0.5-5% 0.5-5%
Electrical Room			Other Non-Fibrous	> 75%
S0007A Door, Caulking, Brown, Loc:4, Basement Entryway	Homogeneous, brown, caulking material.	Chrysotile 0.5-5%	Non-Fibrous Material	> 75%
S0007B Door, Caulking, Brown, Loc:4, Basement Entryway			Not Analyzed	
Comments:	Analysis was stopped due to	o a previous positive result.		
S0007C Door, Caulking, Brown, Loc:4, Basement Entryway			Not Analyzed	
Comments:	Analysis was stopped due to	o a previous positive result.	•	
S0008A Duct, Mastic, Grey, Loc:5, Reception Office	Homogeneous, grey, mastic material.	None Detected	Non-Fibrous Material	> 75%
S0008B	Homogeneous, grey, mastic material.	None Detected	Non-Fibrous Material	> 75%
S0008C Duct, Mastic, Grey, Loc:46, Classroom	Homogeneous, grey, mastic material.	None Detected	Non-Fibrous Material	> 75%
S0009A Floor, All, Vinyl Floor Tile And Mastic, 12" Off White With Grey And Cream	2 Phases: a) Homogeneous, white, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material	> 75%
Flecks, Loc:5, Reception Office	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- Fibrous Material	> 75%



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309798

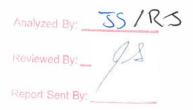
Date Analyzed: March 12, 2024

BULK SAMPLE ANALYSIS

SAMPLE	SAMPLE	% COMPOSITION (VISUAL ESTIMATE)		
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER	
S0009B Floor, All, Vinyl Floor Tile And Mastic, 12" Off White With Grey And Cream	2 Phases: a) Homogeneous, white, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
Flecks, Loc:9, Classroom	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material	
S0009C Floor, All, Vinyl Floor Tile And Mastic, 12" Off White With Grey And Cream	3 Phases: a) Homogeneous, white, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
11	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material	
	c) Homogeneous, grey, levelling compound.	None Detected	Non-Fibrous Material > 75%	
S0010A Window, Tape, Black Butyl Tape, Loc:9, Classroom	Homogeneous, black, soft, caulking material.	None Detected	Non-Fibrous Material > 75%	
S0010B Window, Tape, Black Butyl Tape, Loc:35, Copier Room	Homogeneous, black, soft, caulking material.	None Detected	Non-Fibrous Material > 75%	
S0010C	Homogeneous, black, soft, caulking material.	None Detected	Non-Fibrous Material > 75%	

Reviewed by: Reporting Analyst:

Jason Stapleton 2024.03.12 16:20:58-03'00' Pinchin Ltd. 2024.03.12 16:04:10-03'00'



Pinchin Ltd. - Asbestos Laboratory Internal Asbestos Bulk Sample Chain of Custody

Client Name	Client Name:			Project Address: NS			
Portfolio/Bu	ilding No:	Hammonds	Plains Consolidated	Pinchin File:	336128.013		
Submitted b	y:	A Penney		Email:	apenney@pi	nchin.com	
CC Results	to:	A Thebeau		CC Email:	athebeau@p	inchin.com	1
Date Submi	tted:	March	08 2024	Required by:	Month	Day	2024
# of Sample	s:	34		Priority:	5 Da	ay Turnarou	ınd
Year of Buil	ding Constru	ction (Manda	tory, Years ONLY	: 1967			
Do NOT Sto	p on Positive	(Sample Nu	mbers):	S0005			
Pinchin Gro	up Company	(Mandatory	Field):		Pinchin		
	ling Reference	·		131065/202425619	951889		
CONTRACTOR STREET	oleted by Lab		nly:				
Lab Referen			b309798	Time:	24	4 hour clock	(
Received by	/ :	R	eid Janssen	Date:	March	8	2024
Name(s) of		~	Stroleton 1	R. Janssen			
1441110(0) 01 /	milalysi(s).	Committee of the Commit					
Sample Prefix	Sample No.	Sample Suffix		nple Description/Lo	cation (Man	datory)	
Sample	Sample	Sample	San				
Sample Prefix	Sample No.	Sample Suffix	Ceiling,All,Fireproo	nple Description/Lo	::1,Boiler Roon	1	
Sample Prefix S	Sample No. 0001	Sample Suffix A	Ceiling,All,Fireproo	nple Description/Lo	::1,Boiler Roon N	1	
Sample Prefix S	Sample No. 0001	Sample Suffix A B	Ceiling, All, Fireproo	fing (fibrous), Grey, Loc	::1,Boiler Roon ::1,Boiler Roon ::1,Boiler Roon ::1,Boiler Roon ::1,Boiler Roon	n n n ,Loc:1,Boile	er Room
Sample Prefix S S	Sample No. 0001 0001	Sample Suffix A B	Ceiling, All, Fireproo	fing (fibrous), Grey, Loc	::1,Boiler Roon ::1,Boiler Roon ::1,Boiler Roon ::1,Boiler Roon ::1,Boiler Roon ::1,CH	n n ,Loc:1,Boile	
Sample Prefix S S	Sample No. 0001 0001 0002	Sample Suffix A B C	Ceiling, All, Fireproof Ceiling, All, Fireproof Ceiling, All, Fireproof Piping, Domestic V Piping, Domestic V	fing (fibrous),Grey,Loc fing (fibrous),Grey,Loc fing (fibrous),Grey,Loc fing (fibrous),Grey,Loc fater (hot And Cold),Pa	a:1,Boiler Room i:1,Boiler Room i:1,Bo	n ,Loc:1,Boile ,Loc:1,Boile	er Room

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0003	В	Duct,Boiler Feed Water,Parging Cement,Loc:1,Boiler Room
S	0003	С	Duct,Boiler Feed Water,Parging Cement,Loc:1,Boiler Room № 10
S	0004	А	Duct,Combustion Air,Preformed Block,White,Loc:1,Boiler Room
S	0004	В	Duct,Combustion Air,Preformed Block,White,Loc:1,Boiler Room
S	0004	С	Duct,Combustion Air,Preformed Block,White,Loc:1,Boiler Room
S	0005	А	Wall,All,Drywall And Joint Compound,Loc:2,Sprinkler Room
S	0005	В	Wall,Exterior,Drywall And Joint Compound,Loc:4,Basement Entryway
S	0005	С	Wall,Interior,Drywall And Joint Compound,Loc:35,Copier Room
S	0005	D	Ceiling,Drywall And Joint Compound,Loc:40,Hallway
S	0005	E	Ceiling, Drywall And Joint Compound, Loc: 40, Hallway
S	0005	F	Wall,All,Drywall And Joint Compound,Loc:43,Air Handling Room
S	0005	G	Ceiling,Drywall And Joint Compound,Loc:40,Hallway
S	0006	А	Fire Stop,Firestopping (mastic),Red,Loc:3,Electrical Room
S	0006	В	Fire Stop,Firestopping (mastic),Red,Loc:3,Electrical Room
S	0006	С	Fire Stop,Firestopping (mastic),Red,Loc:3,Electrical Room

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0007	А	Door,Caulking,Brown,Loc:4,Basement Entryway
S	0007	В	Door,Caulking,Brown,Loc:4,Basement Entryway
S	0007	С	Door,Caulking,Brown,Loc:4,Basement Entryway
S	0008	Α	Duct,Mastic, Grey,Loc:5,Reception Office
S	0008	В	Duct,Mastic, Grey,Loc:21,Classroom
S	0008	С	Duct,Mastic, Grey,Loc:46,Classroom
S	0009	А	Floor,All,Vinyl Floor Tile And Mastic,12" Off White With Grey And Cream Flecks,Loc:5,Reception Office
S	0009	В	Floor,All,Vinyl Floor Tile And Mastic,12" Off White With Grey And Cream Flecks,Loc:9,Classroom
S	0009	С	Floor,All,Vinyl Floor Tile And Mastic,12" Off White With Grey And Cream Flecks,Loc:11,Classroom
S	0010	А	Window,Tape,Black Butyl Tape,Loc:9,Classroom
S	0010	В	Window,Tape,Black Butyl Tape,Loc:35,Copier Room
S	0010	С	Window,Tape,Black Butyl Tape,Loc:40,Hallway



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309799
Analyst(s): J. Stapleton

Date Received: March 8, 2024 Samples Submitted: 33
Date Analyzed: March 14, 2024 Phases Analyzed: 44

The Pinchin Ltd. Dartmouth asbestos laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 201032-0) for the 'EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2017. The Pinchin asbestos laboratory uses the aforementioned methods of analysis.

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

This report relates only to the items tested.

This report relates only to the items tested and is valid only when signed with a protected, authorized, electronic signature. This report may not be reproduced, except in full, without the written approval of Pinchin Ltd. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government.

Internal verification studies, quality assurance / control data and laboratory documentation on measurement uncertainty are available upon request.



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309799

Date Analyzed: March 14, 2024

SAMPLE	SAMPLE	% COMPOSITION	VISUAL ESTIMATE)
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER
S0011A Floor, All, Vinyl Floor Tile And Mastic, 12" Brown With Brown And Cream	2 Phases: a) Homogeneous, grey, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non- > 75% Fibrous Material
S0011B Floor, All, Vinyl Floor Tile And Mastic, 12" Brown With Brown And Cream	2 Phases: a) Homogeneous, grey, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Comments:		opped due to a previous positive res	sult.
S0011C Floor, All, Vinyl Floor Tile And Mastic, 12" Brown With Brown And Cream	2 Phases: a) Homogeneous, grey, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Comments:	Analysis of phase b) was sto	opped due to a previous positive res	sult.
S0012A Floor, All, Vinyl Floor Tile And Mastic, 12" White With Light Blue Flecks, Loc:13,	2 Phases: a) Homogeneous, white, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
Classroom	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non- > 75% Fibrous Material



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309799

Date Analyzed: March 14, 2024

SAMPLE	SAMPLE	% COMPOSITION /	VICUAL ECTIMATE)		
			VISUAL ESTIMATE)		
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER		
S0012B	2 Phases:		l		
Floor, All, Vinyl Floor Tile	a) Homogeneous, white,	None Detected	Non-Fibrous Material > 75%		
And Mastic, 12" White With	consolidated, vinyl floor tile.				
Light Blue Flecks, Loc:51,					
Classroom	b) Homogeneous, black,		Not Analyzed		
	soft, sticky material on the				
	back of vinyl floor tile.				
Comments:		opped due to a previous positive res	sult.		
S0012C	2 Phases:				
Floor, All, Vinyl Floor Tile	a) Homogeneous, white,	None Detected	Non-Fibrous Material > 75%		
And Mastic, 12" White With	consolidated, vinyl floor tile.				
Light Blue Flecks, Loc:62,					
Classroom	b) Homogeneous, black,		Not Analyzed		
	soft, sticky material on the				
	back of vinyl floor tile.				
Comments:	Analysis of phase b) was sto	opped due to a previous positive res	sult.		
S0013A	2 Phases:				
	a) Homogeneous, green,	None Detected	Non-Fibrous Material > 75%		
And Mastic, 12" Dark	consolidated, vinyl floor tile.				
Green With Flecks, Loc:13,					
Classroom	b) Homogeneous, black,	Chrysotile 0.5-5%	Tar and other Non- > 75%		
	soft, sticky material on the		Fibrous Material		
	back of vinyl floor tile.				
S0013B	2 Phases:				
Floor, All, Vinyl Floor Tile	a) Homogeneous, green,	None Detected	Non-Fibrous Material > 75%		
And Mastic, 12" Dark	consolidated, vinyl floor tile.				
Green With Flecks, Loc:51,					
Classroom	b) Homogeneous, black,		Not Analyzed		
	soft, sticky material on the				
	back of vinyl floor tile.				
Comments:	Analysis of phase b) was sto	opped due to a previous positive res	sult.		



Project Name: HRCE, Hammonds Plains Consolidated, NS

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Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309799

Date Analyzed: March 14, 2024

SAMPLE	SAMPLE	% COMPOSITION (VISUAL ESTIMATE)	
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER	
S0013C Floor, All, Vinyl Floor Tile And Mastic, 12" Dark	2 Phases: a) Homogeneous, green, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
Green With Flecks, Loc:62, Classroom	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed	
Comments:	· · · · · · · · · · · · · · · · · · ·	opped due to a previous positive res	sult.	
S0014A Floor, All, Vinyl Floor Tile And Mastic, 12" Medium Grey With Grey And White	2 Phases: a) Homogeneous, grey, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
Flecks, Loc:14, Office	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non- > 75% Fibrous Material	
S0014B Floor, All, Vinyl Floor Tile And Mastic, 12" Medium Grey With Grey And White	2 Phases: a) Homogeneous, grey, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
,, ,	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed	
Comments:		opped due to a previous positive res	sult.	
S0014C Floor, All, Vinyl Floor Tile And Mastic, 12" Medium Grey With Grey And White	Phases: a) Homogeneous, grey, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
Flecks, Loc:44, Storage Room Comments:	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile. Analysis of phase b) was str	opped due to a previous positive res	Not Analyzed	



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309799

Date Analyzed: March 14, 2024

SAMPLE	SAMPLE	% COMPOSITION	(VISUAL ESTIMATE)
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER
S0015A	2 Phases:	AGDEGTOG	OTTLER
Floor, All, Vinyl Floor Tile	a) Homogeneous, beige,	None Detected	Non-Fibrous Material > 75%
And Mastic, 12" Beige With	, ,	Trong Botolog	Tron i brode Material
Brown Streaks, Loc:15,			
Classroom	b) Homogeneous, black,	Chrysotile 0.5-5%	Tar and other Non- > 75%
	soft, sticky material on the		Fibrous Material
	back of vinyl floor tile.		
S0015B	2 Phases:		
Floor, All, Vinyl Floor Tile	a) Homogeneous, beige,	None Detected	Non-Fibrous Material > 75%
And Mastic, 12" Beige With	consolidated, vinyl floor tile.		
Brown Streaks, Loc:21,			
Classroom	b) Homogeneous, black,		Not Analyzed
	soft, sticky material on the		
	back of vinyl floor tile.		
Comments:		opped due to a previous positive re	sult.
S0015C	2 Phases:		
Floor, All, Vinyl Floor Tile	, , , , , , , , , , , , , , , , , , , ,	None Detected	Non-Fibrous Material > 75%
And Mastic, 12" Beige With	consolidated, vinyl floor tile.		
Brown Streaks, Loc:21,	l		
Classroom	b) Homogeneous, black,		Not Analyzed
	soft, sticky material on the		
Comments:	back of vinyl floor tile.	 	
S0016A	2 Phases:	opped due to a previous positive re	Suit.
Floor, All, Vinyl Floor Tile		None Detected	Non-Fibrous Material > 75%
And Mastic, 12" Medium	consolidated, vinyl floor tile.	INOTIC DELECTED	13/0
Green With White And	Consolidated, viriyi noor tile.		
Green Flecks, Loc:16,	b) Homogeneous, black,	Chrysotile 0.5-5%	Tar and other Non- > 75%
Classroom	soft, sticky material on the		Fibrous Material
0.000000111	back of vinyl floor tile.		in broad Waterial



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309799

Date Analyzed: March 14, 2024

SAMPLE	% COMPOSITION (VISUAL ESTIMATE)
		OTHER
2 Phases:		
a) Homogeneous, green, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Analysis of phase b) was sto	opped due to a previous positive res	sult.
2 Phases:		
a) Homogeneous, green, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
b) Homogeneous, black, soft, sticky material on the		Not Analyzed
	opped due to a previous positive res	sult.
		I
a) Homogeneous, beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
b) Non-homogeneous, black and yellow, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non- > 75% Fibrous Material
2 Phases:		
a) Homogeneous, beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
b) Non-homogeneous, black and yellow, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
	a) Homogeneous, green, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile. Analysis of phase b) was sto 2 Phases: a) Homogeneous, green, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile. Analysis of phase b) was sto 2 Phases: a) Homogeneous, beige, consolidated, vinyl floor tile. b) Non-homogeneous, black and yellow, soft, sticky material on the back of vinyl floor tile. 2 Phases: a) Homogeneous, beige, consolidated, vinyl floor tile. b) Non-homogeneous, beige, consolidated, vinyl floor tile. b) Non-homogeneous, black and yellow, soft, sticky material on the back of vinyl floor tile.	DESCRIPTION 2 Phases: a) Homogeneous, green, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile. Analysis of phase b) was stopped due to a previous positive resephases: a) Homogeneous, green, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile. Analysis of phase b) was stopped due to a previous positive resephases: a) Homogeneous, black, soft, sticky material on the back of vinyl floor tile. b) Non-homogeneous, black and yellow, soft, sticky material on the back of vinyl floor tile. 2 Phases: a) Homogeneous, beige, consolidated, vinyl floor tile. 2 Phases: a) Homogeneous, beige, consolidated, vinyl floor tile. b) Non-homogeneous, black and yellow, soft, sticky material on the back of vinyl floor tile. b) Non-homogeneous, black and yellow, soft, sticky material on the back of vinyl floor tile.



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309799

Date Analyzed: March 14, 2024

SAMPLE	SAMPLE	% COMPOSITION (VISUAL ESTIMATE)		
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER		
S0017C Floor, All, Vinyl Floor Tile	2 Phases: a) Homogeneous, beige,	None Detected	Non-Fibrous Material > 75%		
And Mastic, 12" Tan With Beige Flecks, Loc:16,	consolidated, vinyl floor tile.				
Classroom	b) Non-homogeneous, black and yellow, soft, sticky material on the back of vinyl floor tile.		Not Analyzed		
Comments:		opped due to a previous positive res	sult.		
S0018A Floor, All, Vinyl Floor Tile And Mastic, 12" Teal With Green And Wite Flecks,	2 Phases: a) Homogeneous, green, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%		
Loc:18, Classroom	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non- > 75% Fibrous Material		
S0018B Floor, All, Vinyl Floor Tile And Mastic, 12" Teal With	2 Phases: a) Homogeneous, green, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%		
Green And Wite Flecks, Loc:20, Janitor Room	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed		
Comments:	Analysis of phase b) was sto	opped due to a previous positive res	sult.		
S0018C Floor, All, Vinyl Floor Tile And Mastic, 12" Teal With	2 Phases: a) Homogeneous, green, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%		
Green And Wite Flecks, Loc:20, Janitor Room	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed		
Comments:	[Analysis of phase b) was sto	opped due to a previous positive res	sult.		



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309799

Date Analyzed: March 14, 2024

SAMPLE	% COMPOSITIO	N (VISUAL ESTIMATE)			
DESCRIPTION	ASBESTOS	OTHER	,		
Homogeneous, grey, mastic material.	None Detected	Cellulose Non-Fibrous Material	25-50% 50-75%		
Homogeneous, grey, mastic material.	None Detected	Cellulose Non-Fibrous Material	25-50% 50-75%		
Homogeneous, grey, mastic material.	None Detected	Cellulose Non-Fibrous Material	25-50% 50-75%		
2 Phases: a) Homogeneous, green, consolidated, vinyl floor tile.	Chrysotile 0.5-	5% Non-Fibrous Material	> 75%		
b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-	5% Tar and other Non- Fibrous Material	> 75%		
		Not Analyzed			
Analysis was stopped due to	a previous positive result.	Not Analyzed			
Analysis was atoms of the fi		. tet / widiy20d			
	Homogeneous, grey, mastic material. Homogeneous, grey, mastic material. Homogeneous, grey, mastic material. 2 Phases: a) Homogeneous, green, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile. Analysis was stopped due to	DESCRIPTION Homogeneous, grey, mastic material. Homogeneous, grey, mastic material. Homogeneous, grey, mastic material. Homogeneous, grey, mastic material. Value of the control of th	DESCRIPTION ASBESTOS OTHER		



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309799

Date Analyzed: March 14, 2024

BULK SAMPLE ANALYSIS

SAMPLE	SAMPLE	% COMPOSITION	(VISUAL ESTIMATE)	
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER	
S0021A Floor, All, Vinyl Floor Tile And Mastic, 12" Medium Blue With Flecks, Loc:25, Caretaker Office	2 Phases: a) Homogeneous, dark blue, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
Caretaker Office	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material	
Comments:	Another phase is present but	ut there was insufficient material su	bmitted to analyze.	
S0021B Floor, All, Vinyl Floor Tile And Mastic, 12" Medium Blue With Flecks, Loc:25,	3 Phases: a) Homogeneous, dark blue, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
Caretaker Office	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material	
	c) Homogeneous, grey, levelling compound.	None Detected	Non-Fibrous Material > 75%	
S0021C Floor, All, Vinyl Floor Tile And Mastic, 12" Medium Blue With Flecks, Loc:25,	2 Phases: a) Homogeneous, dark blue, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
Caretaker Office	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material	

Reviewed by: Reporting Analyst:

Jason Stapleton 2024.03.14 16:58:44-03'00' Pinchin Ltd. 2024.03.14 16:58:15-03'00' Reid Zanssen

Pinchin Ltd. - Asbestos Laboratory Internal Asbestos Bulk Sample Chain of Custody

Client Name) :	HRCE			Project Address:	Project Address: NS		
Portfolio/Bu	ilding No:	Hammonds	Plains Consolidated		Pinchin File:	336128.013	336128.013	
Submitted b	y:	A Penney			Email:	apenney@pi	inchin.com	
CC Results	to:	A Thebeau			CC Email:	athebeau@p	inchin.com	
Date Submi	tted:	March	08	2024	Required by:	Month	Day	2024
# of Sample	s:	33			Priority:	5 Da	ay Turnarou	ind
Year of Buil	ding Constru	ction (<i>Manda</i>	atory, Years	ONLY):	1967			
Do NOT Sto	p on Positive	(Sample Nu	mbers):					
Pinchin Gro	up Company	(Mandatory	Field):			Pinchin		
HMIS2 Build	ling Reference	e #:			131065/202425619	951889		
THE RESERVE OF THE PARTY OF THE	leted by Lab	THE RESERVE OF THE PERSON NAMED IN	nly:					
Lab Reference #:			b309799		Time:	24	4 hour clock	
Received by	<i>ı</i> :	R	eid Janssen		Date:	March	8	2024
Name(s) of	Analyst(s):	7.5	itapletor	1R.3	anssen			
Sample Prefix	Sample No.	Sample Suffix			ole Description/Lo	cation (Man	datory)	
S	0011	А	Floor,All,Vi		room	Brown With Brown And Cream		
S	0011	В		Floor,All,Vinyl Floor Tile And Mastic,12" Bro Flecks,Loc:66,Classroom			wn And Cre	
S 0011 C Floor,All,Vinyl Floor T Flecks,Loc:68,Class			Tile And Mastic,12" B		wn And Cre	eam		
S	0012	А		Floor,All,Vinyl Floor Tile And Mastic,12" V Flecks,Loc:13,Classroom				
S	0012	В	Floor,All,Vinyl Floor Tile And Mastic,12" White With Light Blue Flecks,Loc:51,Classroom					
S	0012	С	Floor, All, Vinyl Floor Tile And Mastic, 12" White With Light Blue					
	0013	А	Floor, All, V	Flecks,Loc:62,Classroom On ND b, (NA) Floor,All,Vinyl Floor Tile And Mastic,12" Dark Green With Flecks,Loc:13,Classroom				

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0013	В	Floor,All,Vinyl Floor Tile And Mastic,12" Dark Green With Flecks,Loc:51,Classroom
S	0013	С	Floor,All,Vinyl Floor Tile And Mastic,12" Dark Green With Flecks,Loc:62,Classroom
S	0014	А	Floor,All,Vinyl Floor Tile And Mastic,12" Medium Grey With Grey And White Flecks,Loc:14,Office
S	0014	В	Floor,All,Vinyl Floor Tile And Mastic,12" Medium Grey With Grey And White Flecks,Loc:33,Classroom
S	0014	С	Floor,All,Vinyl Floor Tile And Mastic,12" Medium Grey With Grey And White Flecks,Loc:44,Storage Room
S	0015	А	Floor,All,Vinyl Floor Tile And Mastic,12" Beige With Brown Streaks,Loc:15,Classroom
S	0015	В	Floor,All,Vinyl Floor Tile And Mastic,12" Beige With Brown Streaks,Loc:21,Classroom
S	0015	С	Floor,All,Vinyl Floor Tile And Mastic,12" Beige With Brown Streaks,Loc:21,Classroom
S	0016	А	Floor,All,Vinyl Floor Tile And Mastic,12" Medium Green With White And Green Flecks,Loc:16,Classroom
S	0016	В	Floor,All,Vinyl Floor Tile And Mastic,12" Medium Green With White And Green Flecks,Loc:33,Classroom
S	0016	С	Floor,All,Vinyl Floor Tile And Mastic,12" Medium Green With White And Green Flecks,Loc:71,Stage Hallway
S	0017	А	Floor,All,Vinyl Floor Tile And Mastic,12" Tan With Beige Flecks,Loc:16,Classroom
S	0017	В	Floor,All,Vinyl Floor Tile And Mastic,12" Tan With Beige Flecks,Loc:16,Classroom
S	0017	С	Floor,All,Vinyl Floor Tile And Mastic,12" Tan With Beige Flecks,Loc:16,Classroom
S	0018	А	Floor,All,Vinyl Floor Tile And Mastic,12" Teal With Green And Wite Flecks,Loc:18,Classroom

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0018	В	Floor,All,Vinyl Floor Tile And Mastic,12" Teal With Green And Wite Flecks,Loc:20,Janitor Room
S	0018	С	Floor,All,Vinyl Floor Tile And Mastic,12" Teal With Green And Wite Flecks,Loc:20,Janitor Room
s	0019	Α	Sink,Mastic, Grey,Loc:18,Classroom
S	0019	В	Sink,Mastic, Grey,Loc:32,Classroom № D
S	0019	С	Sink,Mastic, Grey,Loc:33,Classroom
S	0020	Α	Floor,All,Vinyl Floor Tile And Mastic,9" Green With White Streaks,Loc:27,Classroom
S	0020	В	Floor,All,Vinyl Floor Tile And Mastic,9" Green With White Streaks,Loc:28,Classroom
S	0020	С	Floor,All,Vinyl Floor Tile And Mastic,9" Green With White Streaks,Loc:30,Classroom
S	0021	Α	Floor,All,Vinyl Floor Tile And Mastic,12" Medium Blue With Flecks,Loc:25,Caretaker Office
S	0021	В	Floor,All,Vinyl Floor Tile And Mastic,12" Medium Blue With Flecks,Loc:25,Caretaker Office
S	0021	С	Floor,All,Vinyl Floor Tile And Mastic,12" Medium Blue With Flecks,Loc:25,Caretaker Office



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309800 Analyst(s): Y. Yan

Date Received: March 8, 2024 Samples Submitted: 36
Date Analyzed: March 15, 2024 Phases Analyzed: 56

The Pinchin Ltd. Dartmouth asbestos laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 201032-0) for the 'EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, ' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2017. The Pinchin asbestos laboratory uses the aforementioned methods of analysis.

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

This report relates only to the items tested.

This report relates only to the items tested and is valid only when signed with a protected, authorized, electronic signature. This report may not be reproduced, except in full, without the written approval of Pinchin Ltd. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government.

Internal verification studies, quality assurance / control data and laboratory documentation on measurement uncertainty are available upon request.



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309800

Date Analyzed: March 15, 2024

SAMPLE	SAMPLE	% COMPOSITION	(VISUAL ESTIMATE)	
IDENTIFICATION	DESCRIPTION ASBESTOS		OTHER	
S0022A Floor, All, Vinyl Floor Tile And Mastic, 12" Blue With Dark Blue And White Flecks, Loc:29, Classroom	2 Phases: a) Homogeneous, blue grey, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
Flecks, Loc.29, Glassioom	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material	
S0022B Floor, All, Vinyl Floor Tile And Mastic, 12" Blue With Dark Blue And White	2 Phases: a) Homogeneous, teal, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
Flecks, Loc:39, Staff Area Hallway	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material	
S0022C Floor, All, Vinyl Floor Tile And Mastic, 12" Blue With Dark Blue And White	2 Phases: a) Homogeneous, teal, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
Flecks, Loc:40, Hallway	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material	
Comments:		mall in size. For more reliable resul	ts, a larger sample is required.	
S0023A Floor, All, Vinyl Floor Tile And Mastic, 12" White With Beige Flecks, Loc:35,	2 Phases: a) Homogeneous, white, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%	
Copier Room	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material	



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309800

Date Analyzed: March 15, 2024

SAMPLE	(VISUAL ESTIMATE)	
DESCRIPTION	ASBESTOS	OTHER
2 Phases: a) Homogeneous, white, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material
3 Phases: a) Homogeneous, white, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material
c) Homogeneous, grey, levelling compound.	None Detected	Non-Fibrous Material > 75%
	mall in size. For more reliable result	ts, a larger sample is required.
2 Phases: a) Homogeneous, pale beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material
	DESCRIPTION 2 Phases: a) Homogeneous, white, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile. 3 Phases: a) Homogeneous, white, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile. c) Homogeneous, grey, levelling compound. Phase c) of this sample is so 2 Phases: a) Homogeneous, pale beige, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	DESCRIPTION 2 Phases: a) Homogeneous, white, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile. 3 Phases: a) Homogeneous, white, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile. c) Homogeneous, grey, levelling compound. Phase c) of this sample is small in size. For more reliable result 2 Phases: a) Homogeneous, pale beige, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309800

Date Analyzed: March 15, 2024

0.11101.5	0.11015		\(\(\alpha\) = \(\alpha\)
SAMPLE	SAMPLE	· ·	VISUAL ESTIMATE)
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER
S0024B	2 Phases:		
Floor, All, Vinyl Floor Tile	a) Homogeneous, light	None Detected	Non-Fibrous Material > 75%
And Mastic, 12" Light	brown, consolidated, vinyl		
Brown With Brown And	floor tile.		
Cream Flecks, Loc:24,			
Cafeteria	b) Homogeneous, black,	None Detected	Tar and other Non- > 75%
	soft, sticky material on the		Fibrous Material
	back of vinyl floor tile.		
Comments:	Phase b) of this sample is s	mall in size. For more reliable result	s, a larger sample is required.
S0024C	2 Phases:		
Floor, All, Vinyl Floor Tile	a) Homogeneous, light	None Detected	Non-Fibrous Material > 75%
And Mastic, 12" Light	brown, consolidated, vinyl		
Brown With Brown And	floor tile.		
Cream Flecks, Loc:24,			
Cafeteria	b) Homogeneous, black,	None Detected	Tar and other Non- > 75%
	soft, sticky material on the		Fibrous Material
	back of vinyl floor tile.		
Comments:	Phase b) of this sample is s	mall in size. For more reliable result	s, a larger sample is required.
S0025A	2 Phases:		
Floor, All, Vinyl Floor Tile	a) Homogeneous, pale	None Detected	Non-Fibrous Material > 75%
And Mastic, 12" Light Beige	beige, consolidated, vinyl		
With Brown And White	floor tile.		
Flecks, Loc:40, Hallway			
	b) Homogeneous, black,	None Detected	Tar and other Non- > 75%
	soft, sticky material on the		Fibrous Material
	back of vinyl floor tile.		



Project Name: HRCE, Hammonds Plains Consolidated, NS

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Lab Reference No.: b309800

Date Analyzed: March 15, 2024

SAMPLE	SAMPLE	% COMPOSITION (VISUAL ESTIMATE)
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER
S0025B Floor, All, Vinyl Floor Tile And Mastic, 12" Light Beige With Brown And White	3 Phases: a) Homogeneous, pale beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
Flecks, Loc:40, Hallway	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material
	c) Homogeneous, light grey, levelling compound.	None Detected	Non-Fibrous Material > 75%
S0025C Floor, All, Vinyl Floor Tile And Mastic, 12" Light Beige With Brown And White	3 Phases: a) Homogeneous, pale beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
Flecks, Loc:40, Hallway	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material
	c) Homogeneous, light grey, levelling compound.	None Detected	Non-Fibrous Material > 75%
S0026A Floor, All, Vinyl Floor Tile And Mastic, 12" Off-white With Red Streaks, Loc:40, Hallway	2 Phases: a) Homogeneous, off- white, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	,	Tar and other Non- > 75% Fibrous Material
Comments:	Levelling compound is prese	ent but there was insufficient materi	al submitted to analyze.



Project Name: HRCE, Hammonds Plains Consolidated, NS

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Lab Reference No.: b309800

Date Analyzed: March 15, 2024

SAMPLE	SAMPLE	% COMPOSITION	(VISUAL ESTIMATE)
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER
S0026B Floor, All, Vinyl Floor Tile And Mastic, 12" Off-white With Red Streaks, Loc:40,	2 Phases: a) Homogeneous, off- white, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
Hallway	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Comments:		opped due to a previous positive re	sult.
S0026C Floor, All, Vinyl Floor Tile And Mastic, 12" Off-white With Red Streaks, Loc:41,	2 Phases: a) Homogeneous, off- white, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
Office	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Comments:	Analysis of phase b) was sto	opped due to a previous positive re	sult.
S0027A Floor, All, Vinyl Floor Tile And Mastic, 12" Yellow With Red Streaks, Loc:40,	2 Phases: a) Homogeneous, orange, consolidated, vinyl floor tile.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
Hallway	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	,	Tar and other Non- > 75% Fibrous Material
Comments:	Phase b) of this sample is s	mall in size. For more reliable resul	
S0027B Floor, All, Vinyl Floor Tile And Mastic, 12" Yellow With Red Streaks, Loc:40, Hallway			Not Analyzed
Comments:	Analysis was stopped due to	o a previous positive result.	



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309800

Date Analyzed: March 15, 2024

SAMPLE	SAMPLE	% CO	MPOSITION (VISUAL ESTIMATE)	
IDENTIFICATION	DESCRIPTION	ASBEST	os	OTHER	
S0027C Floor, All, Vinyl Floor Tile And Mastic, 12" Yellow With Red Streaks, Loc:41, Office				Not Analyzed	
Comments:	Analysis was stopped due t	o a previous positive r	esult.	•	
S0028A Wall, Caulking, Black, Loc:40, Hallway	Homogeneous, black, caulking material.	Chrysotile	0.5-5%	Non-Fibrous Material	> 75%
S0028B Wall, Caulking, Black, Loc:40, Hallway				Not Analyzed	
Comments:	Analysis was stopped due t	o a previous positive r	esult.		
S0028C Wall, Caulking, Black, Loc:40, Hallway				Not Analyzed	
Comments:	Analysis was stopped due t	o a previous positive r	esult.		
S0029A Floor, All, Vinyl Floor Tile And Mastic, 12" Pale Green With Light Green Streaks, Loc:46,	3 Phases: a) Homogeneous, light green, consolidated, vinyl floor tile.	Chrysotile	0.5-5%	Non-Fibrous Material	> 75%
Classroom	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile	0.5-5%	Tar and other Non- Fibrous Material	> 75%
	c) Homogeneous, white, levelling compound.	None Detected		Non-Fibrous Material	> 75%
Comments:	Phase c) of this sample is s	mall in size. For more	reliable result	s, a larger sample is requ	ired.



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309800

Date Analyzed: March 15, 2024

SAMPLE	SAMPLE	% COMPOSITION (VISUAL ESTIMATE)		
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER	
S0029B			Not Analyzed	
Floor, All, Vinyl Floor Tile				
And Mastic, 12" Pale				
Green With Light Green				
Streaks, Loc:46,				
Classroom				
Comments:	Analysis was stopped due t	o a previous positive result.		
S0029C			Not Analyzed	
Floor, All, Vinyl Floor Tile				
And Mastic, 12" Pale				
Green With Light Green				
Streaks, Loc:46,				
Classroom				
Comments:	Analysis was stopped due t	o a previous positive result.		
S0030A	2 Phases:			
Ceiling, All, Drywall And	a) Homogeneous, light	None Detected	Non-Fibrous Material > 75%	
Joint Compound, Loc:54,	grey, drywall joint			
Locker/Storage Room	compound.			
	b) Homogeneous, white,	None Detected	Non-Fibrous Material > 75%	
	drywall joint compound.	None Detected	Non-i ibious iviateriai > 7370	
Comments:		I rywall are present on the surface of	this sample	
S0030B	2 Phases:			
Ceiling, All, Drywall And	a) Homogeneous, light	None Detected	Non-Fibrous Material > 75%	
Joint Compound, Loc:55,	grey, drywall joint		1 2	
Locker/Storage Room	compound.			
	'			
	b) Homogeneous, white,	None Detected	Non-Fibrous Material > 75%	
	drywall joint compound.			



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309800

Date Analyzed: March 15, 2024

SAMPLE	SAMPLE	% COMPOSITION (VISUAL ESTIMATE)			
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER		
S0030C Ceiling, All, Drywall And Joint Compound, Loc:59, Washroom	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material > 75%		
Comments:	Drywall is present on the su	rface of this sample.			
S0031A Floor, All, Vinyl Floor Tile And Mastic, 12" Light Blue With Flecks, Loc:58, Gym	3 Phases: a) Homogeneous, blue, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 759		
Office	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material		
	c) Homogeneous, light grey, levelling compound.	None Detected	Non-Fibrous Material > 75%		
S0031B Floor, All, Vinyl Floor Tile And Mastic, 12" Light Blue With Flecks, Loc:58, Gym	2 Phases: a) Homogeneous, blue, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%		
Office	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material		
S0031C Floor, All, Vinyl Floor Tile And Mastic, 12" Light Blue With Flecks, Loc:70, Music	3 Phases: a) Homogeneous, blue, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 759		
Room	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non- > 75% Fibrous Material		
	c) Homogeneous, light grey, levelling compound.	None Detected	Non-Fibrous Material > 75%		



Project Name: HRCE, Hammonds Plains Consolidated, NS

Project No.: 0336128.013

Prepared For: A. Penney / A. Thebeau

Lab Reference No.: b309800

Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE	SAMPLE	% COMPOSIT	% COMPOSITION (VISUAL ESTIMATE)		
IDENTIFICATION	DESCRIPTION	ASBESTOS	OTHER		
S0032A Door, Caulking, White, Loc:79, Exterior	Homogeneous, off-white, caulking material.	None Detected	Non-Fibrous Material	> 75%	
S0032B Door, Caulking, White, Loc:79, Exterior	Homogeneous, off-white, caulking material.	None Detected	Non-Fibrous Material	> 75%	
S0032C Door, Caulking, White, Loc:79, Exterior	Homogeneous, off-white, caulking material.	None Detected	Non-Fibrous Material	> 75%	
S0033A Door, Caulking, Brown, Loc:79, Exterior	Homogeneous, brown, caulking material.	None Detected	Non-Fibrous Material	> 75%	
S0033B Door, Caulking, Brown, Loc:79, Exterior	Homogeneous, brown, caulking material.	None Detected	Non-Fibrous Material	> 75%	
S0033C Door, Caulking, Brown, Loc:79, Exterior	Homogeneous, brown, caulking material.	None Detected	Non-Fibrous Material	> 75%	

Reviewed by:

Yewen Yan Jason Stapleton 2024.03.15 10:30:23-03'00' 2024.03.15 13:22:04-03'00'

Page 10 of 10

Reporting Analyst:



Pinchin Ltd. - Asbestos Laboratory Internal Asbestos Bulk Sample Chain of Custody

Client Name: HRCE		HRCE	Project Address:		NS			
Portfolio/Bu	ilding No:	Hammonds	Plains Conso	lidated	Pinchin File:	336128.013		
Submitted b	y:	A Penney			Email:	apenney@pinchin.com		
CC Results	to:	A Thebeau			CC Email:	athebeau@p	inchin.com	
Date Submi	tted:	March	08	2024	Required by:	Month	Day	2024
# of Sample	s:	36			Priority:	5 Da	y Turnarou	nd
Year of Buil	ding Constru	uction (Manda	atory, Years	ONLY):	1967			
Do NOT Sto	p on Positiv	e (Sample Nu	mbers):		S0030			
Pinchin Gro	up Company	(Mandatory	Field):			Pinchin		
HMIS2 Build	ling Referen	ce #:	· · · · · · · · · · · · · · · · · · ·		131065/202425619	951889		
THE RESERVE OF THE PARTY OF	AND RESIDENCE OF STREET	Personnel O	nly:					
Lab Referer		L V	b309800		Time:	24	hour clock	
Received by	/:	R	eid Janssen		Date:	March	8	2024
Name(s) of				y. 1/a	10			
Sample Prefix	Sample No.	Sample Suffix			le Description/Lo	cation (Mand	datory)	
S	0022	А	Floor,All,Vir Flecks,Loc:		Tile And Mastic,12" B	Blue With Dark	_	
S	0022	В			Tile And Mastic,12" B Area Hallway	llue With Dark I	10	
S	0022	С	Floor,All,Vir Flecks,Loc:		Tile And Mastic,12" B	llue With Dark I	Blue And W	
	0023	_	Floor, All, Vir	nyl Floor T	ile And Mastic,12" V	Vhite With Beig	е	
S	0020	Α Α	Flecks,Loc:	35,Copier	Room	a) M	M(d ()
S S	0023	В	Flecks,Loc:	nyl Floor T	ile And Mastic,12" V			
			Flecks,Loc:: Floor,All,Vir Flecks,Loc::	nyl Floor T 35,Copier	ile And Mastic,12" V	White With Beig	e) b) M	

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0024	В	Floor,All,Vinyl Floor Tile And Mastic,12" Light Brown With Brown And Cream Flecks,Loc:24,Cafeteria
S	0024	С	Floor,All,Vinyl Floor Tile And Mastic,12" Light Brown With Brown And Cream Flecks,Loc:24,Cafeteria
S	0025	А	Floor,All,Vinyl Floor Tile And Mastic,12" Light Beige With Brown And White Flecks,Loc:40,Hallway
S	0025	В	Floor,All,Vinyl Floor Tile And Mastic,12" Light Beige With Brown And White Flecks,Loc:40,Hallway
S	0025	С	Floor,All,Vinyl Floor Tile And Mastic,12" Light Beige With Brown And White Flecks,Loc:40,Hallway
s	0026	А	Floor,All,Vinyl Floor Tile And Mastic,12" Off-white With Red Streaks,Loc:40,Hallway
S	0026	В	Floor,All,Vinyl Floor Tile And Mastic,12" Off-white With Red Streaks,Loc:40,Hallway
S	0026	С	Floor,All,Vinyl Floor Tile And Mastic,12" Off-white With Red Streaks,Loc:41,Office
S	0027	А	Floor,All,Vinyl Floor Tile And Mastic,12" Yellow With Red Streaks,Loc:40,Hallway
S	0027	В	Floor,All,Vinyl Floor Tile And Mastic,12" Yellow With Red Streaks,Loc:40,Hallway
S	0027	С	Floor,All,Vinyl Floor Tile And Mastic,12" Yellow With Red Streaks,Loc:41,Office
S	0028	А	Wall,Caulking,Black,Loc:40,Hallway
S	0028	В	Wall, Caulking, Black, Loc: 40, Hallway
S	0028	С	Wall,Caulking,Black,Loc:40,Hallway
S	0029	А	Floor,All,Vinyl Floor Tile And Mastic,12" Pale Green With Light Green Streaks,Loc:46,Classroom

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0029	В	Floor,All,Vinyl Floor Tile And Mastic,12" Pale Green With Light Green Streaks,Loc:46,Classroom
S	0029	С	Floor,All,Vinyl Floor Tile And Mastic,12" Pale Green With Light Green Streaks,Loc:46,Classroom
S	0030	А	Ceiling,All,Drywall And Joint Compound,Loc:54,Locker/Storage Room
S	0030	В	Ceiling,All,Drywall And Joint Compound,Loc:55,Locker/Storage Room
S	0030	С	Ceiling,All,Drywall And Joint Compound,Loc:59,Washroom
S	0031	А	Floor,All,Vinyl Floor Tile And Mastic,12" Light Blue With Flecks,Loc:58,Gym Office
S	0031	В	Floor,All,Vinyl Floor Tile And Mastic,12" Light Blue With Flecks,Loc:58,Gym Office
s	0031	С	Floor,All,Vinyl Floor Tile And Mastic,12" Light Blue With Flecks,Loc:70,Music Room
S	0032	А	Door,Caulking,White,Loc:79,Exterior
S	0032	В	Door,Caulking,White,Loc:79,Exterior
S	0032	С	Door,Caulking,White,Loc:79,Exterior
S	0033	А	Door,Caulking,Brown,Loc:79,Exterior
S	0033	В	Door,Caulking,Brown,Loc:79,Exterior
S	0033	С	Door,Caulking,Brown,Loc:79,Exterior

APPENDIX II-B Lead Analytical Certificates



EMSL Canada Inc.

2756 Slough Street, Mississauga, ON L4T 1G3

hone/Fax: (289) 997-4602 / (289) 997-4607

http://www.EMSL.com torontolab@emsl.com

EMSL Canada Or 552403615
CustomerID: 55PINC50
CustomerPO: 336128.013
ProjectID:

ProjectID:

Ashley Penney
 Pinchin Environmental
 42 Dorey Avenue
 Dartmouth, Nova Scotia, NS B3B 0B1

Phone: (902) 461-9999
Fax: (902) 461-9932
Received: 3/11/2024 09:53 AM

Collected: 3/6/2024

Project: 336128.013

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected Analyzed	Weight	RDL	Lead Concentration
L0001 552403615-0001	3/5/2024 3/12/2024 Site: Location 1	0.2466 g	81 ppm	410 ppm
L0002 552403615-0002	3/5/2024 3/12/2024 Site: Location 2	0.2472 g	81 ppm	<81 ppm
L0003 552403615-0003	3/5/2024 3/12/2024 Site: Location 5	0.2514 g	80 ppm	<80 ppm
L0004 552403615-0004	3/6/2024 3/12/2024 Site: Location 16	0.2516 g	80 ppm	150 ppm
L0005 552403615-0005	3/6/2024 3/12/2024 Site: Location 56	0.2488 g	80 ppm	<80 ppm

Rowena Fanto, Lead Supervisor or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

**Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request. Samples analyzed by EMSL Canada Inc. Mississauga, ON AIHA LAP, LLC-ELLAP Accredited #196142

APPENDIX II-C PCB Analytical Certificates



11 Morris Drive, Unit 122 Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.
42 Dorey Avenue

Dartmouth, NS B3B0B1

(902) 461-9999

ATTENTION TO: Ashley Penney

PROJECT: 336128.013

AGAT WORK ORDER: 24X127897

TRACE ORGANICS REVIEWED BY: Jason Coughtrey, Operation Manager

DATE REPORTED: Mar 19, 2024

PAGES (INCLUDING COVER): 5 VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (902) 468-8718

<u>*Notes</u>			

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may
 incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may
 be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other
 third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the
 services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of
 merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines
 contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

AGAT Laboratories (V1)

Page 1 of 5

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)

Western Enviro-Agricultural Laboratory Association (WEALA) Environmental Services Association of Alberta (ESAA) AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. Measurement Uncertainty is not taken into consideration when stating conformity with a specified requirement.



Certificate of Analysis

AGAT WORK ORDER: 24X127897

PROJECT: 336128.013

ATTENTION TO: Ashley Penney

SAMPLED BY:

11 Morris Drive, Unit 122 Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

Total Polychlorinated Biphenyls in Solids						
DATE RECEIVED: 2024-03-08					DATE REPORTED: 2024-03-19	
				P0001, Black		
SAMPLE DESCRIPTION:				Caulking		
SAMPLE TYPE:			PLE TYPE:	Other		
		DATE	SAMPLED:	2024-03-07		
Parameter	Unit	G/S	RDL	5711365		
Total Polychlorinated Biphenyls	mg/kg		0.5	<0.5		

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Unit

Acceptable Limits

60-140

69

Analysis performed at AGAT Halifax (unless marked by *)

CLIENT NAME: PINCHIN LTD.

Surrogate

SAMPLING SITE:

Decachlorobiphenyl

Certified By:

Josephan Coaghtry



11 Morris Drive, Unit 122 Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24X127897

PROJECT: 336128.013

ATTENTION TO: Ashley Penney

SAMPLING SITE: SAMPLED BY:

Trace Organics Analysis															
RPT Date: Mar 19, 2024			DUPLICATE			REFERENCE MATERIAL		TERIAL	METHOD BLANK SPIKE			MATRIX SPIKE			
PARAMETER	R Batch	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
		ld	- '	.,			Value	Lower	Upper	,	Lower	Upper	,	Lower	Upper

Total Polychlorinated Biphenyls in Solids

Total Polychlorinated Biphenyls 1 <0.5 <0.5 NA < 0.5 118% 60% 140% 70% 60% 140% 66% 60% 140%

Comments: If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution. If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By:

Josan Coughtry



11 Morris Drive, Unit 122 Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24X127897
PROJECT: 336128.013

ATTENTION TO: Ashley Penney

SAMPLING SITE: SAMPLED BY:

PARAMETER AGAT S.O.P		LITERATURE REFERENCE	ANALYTICAL TECHNIQUE				
Trace Organics Analysis							
Total Polychlorinated Biphenyls	ORG-120-5106	EPA SW846/8081/8080	GC/ECD				
Decachlorobiphenyl	ORG-120-5106	EAP SW846 3510C/8080/8010	GC/ECD				



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Unit 122 • 11 Morris Drive

Dartmouth, NS

B3B 1M2

P: 902.468.8718

aboratory Use Only
rrival Condition: Good Poor (see notes
lold Time:
GAT Job Number: 24X12 7897
Notes:

Chain of Custody Record	webearth.agatlabs.com	www.agatlabs.com AGAT Job Number: 24X12 7897
Report Information Company: Pinchin Ltd.	Report Information (Please print):	Report Format Notes:
1	1. Name: Ashley Penney Email: apenney@pinchin.com	Single Sample per page
40.00	Allain Theheau	- Turnaround Time Required (TAT)
Address: 42 Dorey Avenue Dartmouth, Nova Scotia	Z. Name:	_ Per page Regular TAT ☑ 5 to 7 working days
	Email: athebeau@pinchin.com	Excel Format Included Rush TAT Same day 1 day
Phone: 902.225.9324 Fax:	Regulatory Requirements (Check):	
Client Project #: 336128.013	☐ List Guidelines on Report ☐ Do not list Guidelines on Repor	t
AGAT Quotation:	□ PIRI	Date Required:
Please Note: If quotation number is not provided client will be billed full price for analysis		Policia and a second
Invoice To Same Yes □ / No [Drinking Water Sample: ☐ Yes ☐ No Salt Water Sample ☐ Yes ☐ No Reg. No.:
Company: Pinchin Ltd.	☐ CCME ☐ CDWQ	
Contact:	☐ Industrial ☐ NSEQS-Cont Sites ☐ ☐ Commercial ☐ HRM 101 ☐ Res/Park	
Address: 42 Dorey Avenue		
Dartmouth, NS	Adricultural Storm Water	DD VSS PIRI) Iow in Fractionation STEX Comonas MPN MPN
Phone: Fax:	☐ FWAL ☐ Waste Water ☐ Sediment ☐ Other	(PIR) V V V V V V V V V
PO/Credit Card#:	Gediment ☐ Other Other ☐ Usese ☐ ☐	SS CBOD CBOD I Phosphorus I Phosphorus I TPH/BTEX (PIR) C I TPH/BTEX C C C C C C C C C
Sample Identification Date/Time Sampled Matrix	# Containers Comments - Site/Sample Info. Sample Containment Sampl	BOD CBOD PH DTSS DTDS VSS TKN Total Phosphorus Phenols Pier 1: TPH/BTEX (PIRI) Diow level Tier 2: TPH/BTEX Fractionation CCME-CWS TPH/BTEX VOC
P0001, Black caulking 3/7/2024 Bulk 1	x Bag	
Samples Relinquished By (Print Name): Date/Time		
Ashley Penney 3/8/20	(VA)	Pink Copy - Client Page 1 of 1
Coument ID: DIV-133-1502.004 Arkand all products and/or services provided by ACAT.	Samples Received By (Sign):	Date/Time Yellow Copy - AGAT White Copy- AGAT No:

Date revised; June 15, 2023

APPENDIX III Methodology

1.0 GENERAL

An investigation was conducted to identify the type of Hazardous Building Materials incorporated in the structure and its finishes.

Pinchin File: 336128.013

Information regarding the location and condition of hazardous building materials encountered and visually estimated quantities were recorded. The locations of any samples collected were recorded on small-scale plans. As-built drawings and previous reports were referenced where provided.

Sample collection was conducted in accordance with our Standard Operating Procedures.

1.1 Asbestos

The investigation for asbestos included friable and non-friable asbestos-containing materials (ACM). A friable material is a material that when dry can be crumbled, pulverized or powdered by hand pressure, or a material that has already become crushed, pulverized, or powdered.

A separate set of samples was collected of each type of homogenous material suspected to contain asbestos. A homogenous material is defined by the US EPA as material that is uniform in texture and appearance, was installed at one time, and is unlikely to consist of more than one type or formulation of material. The homogeneous materials were determined by visual examination and available information on the phases of construction and prior renovations.

Samples were collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy was also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM. In some cases, manufactured products such as asbestos cement pipe were visually identified without sample confirmation.

The asbestos analysis of select materials was completed using a stop-positive approach. Only one result meeting the regulated criteria was required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stopped analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material were analyzed if no asbestos is detected. In some cases, all samples were analyzed in the sample set regardless of result.

The analysis was performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, July 1993.

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Analytical results were compared to the following criteria:

Jurisdiction	Friable	Non-Friable	
Nova Scotia	0.5%1	0.5%	

Pinchin File: 336128.013

Where building materials are described in the report as "non-asbestos" or "does not contain asbestos", this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation. Additionally, these terms are used for materials which historically are known to not include asbestos in their manufacturing.

Asbestos materials were evaluated in order to make recommendations regarding any remedial work. The priority for remedial action was based on several factors:

- Friability (friable or non-friable)
- Condition (good, fair, poor, debris)
- Accessibility (ranking from accessible to all building users to inaccessible)
- Visibility (whether the material is obscured by other building components)
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition)

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

1.2 Lead

Samples of distinctive paint finishes, and surface coatings present in more than a limited application, where removal of the paint is possible were collected. The samples were collected by scraping the painted finish to include base and covering applications.

Analysis for lead in paints or surface coatings was performed in accordance with EPA Method No. 3050B/Method No. 7420; flame atomic absorption.

Analytical results were compared to the following criteria.

Jurisdiction	Units (%)	Units (ppm) / (mg/kg)	
Nova Scotia	0.009	90	

Other lead building products (e.g. batteries, lead sheeting, flashing) were identified by visual observation only.

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¹ Or any amount if vermiculite

1.3 Silica

Building materials known to contain crystalline silica (e.g. concrete, cement, tile, brick, masonry, mortar) were identified by visual inspection only. Pinchin did not perform sampling of these materials for laboratory analysis of crystalline silica content.

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1.4 Mercury

Building materials, products or equipment (e.g. thermostats, barometers, pressure gauges, lamp tubes), suspected to contain mercury were identified by visual inspection only. Dismantling of equipment suspected of containing mercury was not performed. Sampling of these materials for laboratory analysis of mercury content was not performed.

1.5 Polychlorinated Biphenyls

The potential for light ballast and oil filled transformers to contain PCBs was based on the age of the building, a review of maintenance records, and examination of labels or nameplates on equipment, where present and accessible. The information was compared to known ban dates of PCBs and Environment Canada publications.

Dry type transformers were presumed to be free of dielectric fluids and hence non-PCB.

Fluids (mineral oil, hydraulic, Aroclor or Askarel) in transformers or other equipment were not sampled for PCB content.

Select caulking was sampled and submitted for PCB analysis following EPA 3550C/8082A.

Sample results are compared to the criteria of 50 mg/kg for solids as stated in the PCB Regulation, SOR/2008-273.

1.6 Visible Mould

The presence of mould or water damage was determined by visual inspection of exposed building surfaces. If any mould growth or water damage was concealed within building cavities it was not addressed in this assessment.

 $Template: Methodology for \ Hazardous \ Building \ Materials \ Assessment, \ HAZ, \ January \ 16, 2024$

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1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

Pinchin File: 336128.013

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.

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Poor	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been
	removed incompletely.

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The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestoscement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
------	--

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Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

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2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris Debris may be friable or non-friable but is always identified as debris.	Debris	Debris may be friable or non-friable but is always identified as debris.	
--	--------	--	--

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

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3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

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Access (A)	Common areas of the building within reach of all building users (approximately 8 '-9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses.)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

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4.1 **Action Matrix**

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

		Condition		
Access	Good	Fair	Poor	Debris
(A)	Action 5 ¹	Action 5 ²	Action 3	Action 1
(B)	Action 7	Action 6 ³	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

Access	Good	Fair	Poor	Debris
(A)	Action 7	Action 7 ⁴	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

4.2 **Action Definitions**

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris
	Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.

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¹ If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.

² If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.

If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.
 Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons

Action Definitions Action 2 Precautions for Access Which may Disturb ACM Debris Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned Action 3 **ACM Removal** Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed. Action 4 Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM. Action 5 Proactive ACM Removal Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.

Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of

Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM.

Reassess materials regularly (typically once per year).

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Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, August 17, 2023

the area or room.

ACM Repair

Action 6

Action 7

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APPENDIX IV Location Summary Report



LOCATIONS LIST



Client:HRCE Site: 2180 Hammonds Plains Road, Hammonds Plains, NS

Building Name: Hammonds Plains Consolidated

Survey Date: 2024-03-05 Building Phases: A: 1967

Last Re-Assessment:

	ases: A: 1967				
Location No.	Name or Description	Area ft²	Floor No.	Bldg. Phase	Notes
1	Boiler Room, room no. 103	995	В	Α	
2	Sprinkler Room, room no. 101	600	В	Α	
3	Electrical Room, room no. 102	100	В	Α	
4	Basement Entryway	130	В	Α	
5	Reception Office, room no. 202	410	M	Α	
6	Office, room no. 202C	100	М	Α	
7	Office, room no. 202B	153	М	Α	
8	Office, room no. 202A	153	М	Α	
9	Classroom, room no. 205	644	М	Α	
10	Lunch Room, room no. 205A	164	М	Α	
11	Classroom	748	М	Α	
12	Classroom, room no. 206	326	М	Α	
13	Classroom	400	М	А	
14	Office, room no. 205B	100	М	А	
15	Classroom, room no. 216	743	M	A	
16	Classroom, room no. 217	734	M	A	
17	Classroom, room no. 218	732	M	A	
18	Classroom, room no. 219	740	M	A	
19	Washroom, room no. 220	97	M	A	
20	Janitor Room, room no. 221	350	M	A	
21		738	M	A	
	Classroom, room no. 229				
22	Girls Washroom, room no. 225	332	M	A	
23	Kitchen, room no. 222	450	M	A	
24	Cafeteria, room no. 213	3940	M	A	
25	Caretaker Office	165	M	A	
26	Boys Washroom	332	M	A	
27	Classroom, room no. 230	732	M	Α	
28	Classroom, room no. 231	720	M	Α	
29	Classroom, room no. 232	735	M	Α	
30	Classroom, room no. 233	748	M	Α	
31	Washroom, room no. 228	60	M	Α	
32	Classroom, room no. 211	742	M	Α	
33	Classroom, room no. 210	740	M	Α	
34	Classroom, room no. 209	733	M	Α	
35	Copier Room, room no. 204	350	M	Α	
36	Staff Room, room no. 203	341	М	Α	
37	Staff Washroom, room no. 203B	60	М	Α	
38	Staff Washroom, room no. 203C	60	М	Α	
39	Staff Area Hallway, room no. 203	165	М	Α	
40	Hallway	4200	M	Α	
41	Office, room no. 237	100	M	Α	
42	Office, room no. 237A	220	M	Α	
43	Air Handling Room	1040	Р	Α	
44	Storage Room, room no. 238	300	M	В	
45	Server Room, room no. 239	80	M	В	
46	Classroom, room no. 234	718	M	В	
47	Classroom, room no. 235	720	М	В	
48	Classroom, room no. 240	620	М	В	Windows dated 2017
49	Office Space, room no. 241	475	M	В	
50	Mechanical Room, room no. 273	520	М	В	
51	Classroom, room no. 242	820	М	В	
52	Washroom, room no. 242A	60	M	В	
53	Gymnasium And Stage, room no. 261	3835	M	В	
54	Locker/Storage Room	400	M	В	
55	Locker/Storage Room	400	M	В	
56	Gym Storage Room	200	M	В	
57	Gym Storage	400	M	В	



LOCATIONS LIST



Location No.	Name or Description	Area ft²	Floor No.	Bldg. Phase	Notes
58	Gym Office, room no. 266	85	М	В	
59	Washroom, room no. 265	40	М	В	
60	Classroom, room no. 245	820	М	В	
61	Washroom, room no. 246A	60	М	В	
62	Classroom, room no. 246	820	М	В	
63	Washroom, room no. 246A	60	М	В	
64	Library, room no. 247	1100	М	В	
65	Classroom, room no. 249	755	М	В	
66	Classroom, room no. 250	740	М	В	
67	Classroom, room no. 251	740	М	В	
68	Classroom, room no. 252	740	М	В	
69	Classroom, room no. 253	740	М	В	
70	Music Room, room no. 257	1085	М	В	
71	Stage Hallway, room no. 256	150	М	В	
72	Staff Washroom, room no. 264	60	М	В	
73	Girls Washroom	280	М	В	
74	Janitor Closet, room no. 269	25	М	В	
75	Boys Washroom, room no. 270	250	М	В	
76	Hallway	3340	М	В	
77	Gym Vestibule	80	М	В	
78	Utility Room	200	М	В	
79	Exterior	0		Α	

APPENDIX V Hazardous Materials Summary Report / Sample Log



HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG



Survey Date: 2024-03-05

Client:HRCE

Site: 2180 Hammonds Plains Road, Hammonds Plains, NS

Building Name: Hammonds Plains Consolidated

	Piains, No												
HAZMAT	Sample No	System/Component/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Туре	Positive	Friability		
Asbestos	S0001 ABC	Ceiling, Other All, Debris Fireproofing (fibrous) Grey	1	А	0	995	0	0	None Detected	No			
Asbestos	S0002 ABC	Piping Domestic Water (hot And Cold) Parging Cement	1	А	0	0	8	0	Chrysotile	Yes	F		
Asbestos	S0003 ABC	Duct Boiler Feed Water Parging Cement	1	А	0	8	0	0	None Detected	No			
Asbestos	S0004 ABC	Duct Combustion Air Preformed Block White	1	А	0	40	0	0	None Detected	No			
Asbestos	S0005 ABCDEFG	Ceiling, Wall, Ceiling, Wall All, Exterior, Interior Drywall And Joint Compound	2,3,4,5,7,8,9,11,19,23,31,35,36,37,38,40,43	А	0	8927	0	0	None Detected	No			
Asbestos	S0006 ABC	Other Fire Stop Firestopping (mastic) Red	3	А	0	1	0	0	None Detected	No			
Asbestos	S0007 ABC	Other Door Caulking Brown	4	Α	7	0	0	0	Chrysotile	Yes	NF		
Asbestos	S0008 ABC	Duct Mastic, Grey	5,6,7,8,9,10,11,12,13,14,18,21,25,28,29,32 33,34,35,36,40,41,46,47,48,51,58,59,60,62,64 65,66,67,68,69,70,71,72,73,74,75,76		537	0	0	0	None Detected	No			
Asbestos	S0009 ABC	Floor All Vinyl Floor Tile And Mastic 12" Off White With Grey And Cream Flecks	5,6,7,8,9,10,11,12,13,32,42,47,60,64,66,68 71,76		0	8399	0	0	None Detected	No			
Asbestos	S0010 ABC	Other Window Caulking Black Butyl Tape	9,35,36,40		0	0	17	0	None Detected	No			
Asbestos	S0011 ABC	Floor All Vinyl Floor Tile And Mastic 12" Brown With Brown And Cream Flecks	12,60,64,66,68	A,B	0	1626	0	0	Chrysotile	Yes	NF		
Asbestos	S0012 ABC	Floor All Vinyl Floor Tile And Mastic 12" White With Light Blue Flecks	13,51,62,65,67,69	A,B	0	3495	0	0	Chrysotile	Yes	NF		
Asbestos	S0013 ABC	Floor All Vinyl Floor Tile And Mastic 12" Dark Green With Flecks	13,51,62,65,67,69	A,B	0	665	0	0	Chrysotile	Yes	NF		
Asbestos	S0014 ABC	Floor All Vinyl Floor Tile And Mastic 12" Medium Grey With Grey And White Flecks	14,33,44,45,48,49,56,74	A,B	0	1920	0	0	Chrysotile	Yes	NF		
Asbestos	S0015 ABC	Floor All Vinyl Floor Tile And Mastic 12" Beige With Brown Streaks	15,17,21	А	0	2213	0	0	Chrysotile	Yes	NF		
Asbestos	S0016 ABC	Floor All Vinyl Floor Tile And Mastic 12" Medium Green With White And Green Flecks	16,33,34,40,71,76	A,B	0	2583	0	0	Chrysotile	Yes	NF		
Asbestos	S0017 ABC	Floor All Vinyl Floor Tile And Mastic 12" Tan With Beige Flecks	16	А	0	434	0	0	Chrysotile	Yes	NF		
Asbestos	S0018 ABC	Floor All Vinyl Floor Tile And Mastic 12" Teal With Green And Wite Flecks	18,20	А	0	1090	0	0	Chrysotile	Yes	NF		
Asbestos	S0019 ABC	Other Sink Mastic, Grey	18,32,33,34,60,62,65	A,B	0	0	7	0	None Detected	No			
Asbestos	S0020 ABC	Floor All Vinyl Floor Tile And Mastic 9" Green With White Streaks	27,28,30		0	2200	0	0	Chrysotile	Yes	NF		
Asbestos	S0021 ABC	Floor All Vinyl Floor Tile And Mastic 12" Medium Blue With Flecks	25	А	0	165	0	0	None Detected	No			



HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG



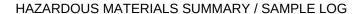
HAZMAT	Sample No	System/Component/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Туре	Positive	Friability
Asbestos	S0022 ABC	Floor All Vinyl Floor Tile And Mastic 12" Blue With Dark Blue And White Flecks	29,39,40	Α	0	2500	0	0	None Detected	No	
Asbestos	S0023 ABC	Floor All Vinyl Floor Tile And Mastic 12" White With Beige Flecks	35,36	А	0	691	0	0	None Detected	No	
Asbestos	S0024 ABC	Floor All Vinyl Floor Tile And Mastic 12" Light Brown With Brown And Cream Flecks	24		0	3940	0	0	None Detected	No	
Asbestos	S0025 ABC	Floor All Vinyl Floor Tile And Mastic 12" Light Beige With Brown And White Flecks	40	Α	0	275	0	0	None Detected	No	
Asbestos	S0026 ABC	Floor All Vinyl Floor Tile And Mastic 12" Off- white With Red Streaks	40,41,76	A,B	0	1250	0	0	Chrysotile	Yes	NF
Asbestos	S0027 ABC	Floor All Vinyl Floor Tile And Mastic 12" Yellow With Red Streaks	40,41,76	A,B	0	355	0	0	Chrysotile	Yes	NF
Asbestos	S0028 ABC	Wall Caulking Black	40,44	A,B	24	0	0	0	Chrysotile	Yes	NF
Asbestos	S0029 ABC	Floor All Vinyl Floor Tile And Mastic 12" Pale Green With Light Green Streaks	46	В	0	718	0	0	Chrysotile	Yes	NF
Asbestos	S0030 ABC	Ceiling All Drywall And Joint Compound	54,55,59	В	0	840	0	0	None Detected	No	
Asbestos	S0031 ABC	Floor All Vinyl Floor Tile And Mastic 12" Light Blue With Flecks	58,70	В	0	490	0	0	None Detected	No	
Asbestos	S0032 ABC	Other Door Caulking White	79		25	0	0	0	None Detected	No	
Asbestos	S0033 ABC	Other Door Caulking Brown	79	Α	18	0	0	0	None Detected	No	
Asbestos	V9000	Floor All Vinyl Floor Tile And Mastic 12" Grey With Grey And White Flecks	33	А	0	400	0	0	Confirmed Asbestos	Yes	NF
Asbestos	V9500	Duct Mastic Painted White	24	А	120	0	0	0	Presumed Asbestos	Yes	NF
Asbestos	V9500	Floor All Mortar Ceramic Tile Thinset	19,22,23,26,31,37,38,40,52,54,55,59,61,63,72 73,75,76,77	A,B	0	3931	0	0	Presumed Asbestos	Yes	NF
Asbestos	V9500	Wall All Mortar Ceramic Tile Thinset	19,22,23,26,31,37,38,52,54,55,59,61,63,72,73 75	A,B	0	7035	0	0	Presumed Asbestos	Yes	NF
Asbestos	V0000	Ceiling Acoustic Tile Ceiling Tiles (lay-in) 2x4 Laminated Drywall	23	Α	0	0	0	0	Non Asbestos	No	
Asbestos	V0000	Ceiling Acoustic Tile Ceiling Tiles (lay-in) 2x4 Pinhole And Fleck	5,6,7,8,9,10,11,12,13,14,15,16,17,18,20,21 22,25,26,27,28,29,30,31,32,33,34,35,36,37,38 39,40,41,42,44,45,46,47,48,49,51,52,56,58,60 61,62,63,64,65,66,67,68,69,70,71,72,73,74,75 76,77	A,B	0	0	0	0	Non Asbestos	No	
Asbestos	V0000	Floor All Vinyl Floor Tile And Mastic 12" Dark Blue With Flecks	70	В	0	680	0	0	Non Asbestos	No	
Asbestos	V0000	Other Door Caulking Red Silicone	11	Α	0	0	0	0	Non Asbestos	No	
Asbestos	V0000	Other Window Caulking Silicone	5,7,8,9,11,12,15,16,17,18,21,27,28,29,30,32 33,34,36,46,47,48,60,64,66,68,79	A,B	0	0	0	0	Non Asbestos	No	



HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG



HAZMAT	Sample No	System/Component/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Туре	Positive	Friability
Asbestos	V0000	Wall Expansion Joint Caulking Silicone	79	А	0	0	0	0	Non Asbestos	No	
Paint	L0001	Wall Concrete (poured) White	1,2,4,43,50	A,B	0	6460	0	0	Lead (Low)	Yes	-
Paint	L0002	Wall Drywall And Joint Compound White	2,3,4,5,7,8,9,11,35,36,40,43	Α	0	4680	0	0		No	-
Paint	L0003	Wall Masonry White	5,6,7,8,9,10,11,12,13,14,18,20,24 27,28,30,32,35,36,40,42,51,53,54,55,57 58,60,62,64,65,66,67,68,69,70,71,76,77 78	A,B	0	82857	0	0		No	-
Paint	L0004	Wall Masonry Off-white	15,16,17,21,29,33,34,39,41,46,47,48,49	A,B	0	22675	0	0	Lead (Low)	Yes	-
Paint	L0005	Wall Masonry Light Grey	44,45,56,74	В	0	980	0	0		No	-
Lead Product	V9000	Bell And Spigot Fittings	1	А	0	0	2	0	Lead Product	Yes	-
Lead Product	V9500	Batteries In Emer. Lights	1,2,3,4,11,24,39,40,43,49,50,53,54 55,71,76	A,B	0	0	31	0	Presumed Lead Product	Yes	-
PCB	P0001	Caulking Black	40,44	A,B	24	0	0	0	-	No	-
PCB	V0000	Light Ballasts	1,2,3,4,5,6,7,8,9,10,11,12,13 14,15,16,17,18,19,20,21,22,23,24,25,26 27,28,29,30,31,32,33,34,35,36,37,38,39 40,41,42,43,44,45,46,47,48,49,51,52,53 54,55,56,57,58,59,60,61,62,63,64,65,66 67,68,69,70,71,72,73,74,75,76,77,78	A,B	0	0	0	0	-	No	-
PCB	V0000	Transformer	50	В	0	0	0	0	-	No	-
Mould	V9500	Ceiling Tiles (lay-in)	40	А	0	4	0	0	Presumed Mould	Yes	-
Hg	V9000	Light Fixture	1,2,3,4,25,43,50,56,58,71,74,76,78	A,B	0	0	60	0	Hg	Yes	-
Hg	V9500	Light Fixture	5,6,7,8,9,10,11,12,13,14,15,16,17 18,19,20,21,22,23,24,26,27,28,29,30,31 32,33,34,35,36,37,38,39,40,41,42,44,45 46,47,48,49,51,52,53,54,55,57,59,60,61 62,63,64,65,66,67,68,69,70,72,73,75,77	A,B	0	0	406	0	Presumed Hg	Yes	-







Legend:

Sample nu	ımber
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material
[Loc. No.]	Abated Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

NF	Non Friable material.
F	Friable material
PF	Potentially Friable material

APPENDIX VI Confirmed and Presumed Report



Survey Date: 2024-03-05

Location: #1: Boiler Room

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Location: #1: Boiler Room

Survey Date: 2024-03-05

Client: HRCE

Client: HRCE

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #1 : Boiler Room Floor: B

Area (sqft): 995

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Piping	Domestic Water (hot And Cold)	Parging Cement		Canvas	В	Y		8(7)			EA	S0002ABC	Chrysotile	50-75%	Confirmed Asbestos	F

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: B Room #: 103 Area (sqft): 995

Room #: 103

Last Re-Assessment: 0000-00-00

PAINT												
System	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard					
Wall	Concrete (poured)	3100		SF	L0001	White	Pb: 410 mg/kg	Lead (Low)				

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #1 : Boiler Room Floor: B Room #: 103 Area (sqft): 995

Last Re-Assessment: 0000-00-00

PB PRODUCTS											
Component	Quantity	Unit	Sample	Hazard							
Batteries In Emer. Lights	1	EA	V9500	Presumed							
Bell And Spigot Fittings	2	EA	V9000	Yes							

Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: B Room #: 103 Area (sqft): 995

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	7	FΔ	V9000	Yes





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: B Room #: 101

Survey Date: 2024-03-05

Location: #2 : Sprinkler Room

Location: #2: Sprinkler Room

Location: #2 : Sprinkler Room

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Building Name: Hammonds Plains Consolidated

Area (sqft): 600

Last Re-Assessment: 0000-00-00

PAINT										
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard		
Wall	Masonry	600		SF	V0001	White	Pb: 410 mg/kg	Lead (Low)		

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: B

Building Name: Hammonds Plains Consolidated

Room #: 101

Last Re-Assessment: 0000-00-00

Area (sqft): 600

PB PRODUCTS								
Component	Quantity	Unit	Sample	Hazard				
Batteries In Emer. Lights	1	EA	V9500	Presumed				

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: B

Building Name: Hammonds Plains Consolidated

Room #: 101

Area (sqft): 600

Last Re-Assessment: 0000-00-00

MERCURY Component Unit Quantity Sample Hazard EΑ V9000 Light Fixture





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: B

Building Name: Hammonds Plains Consolidated

Location: #3: Electrical Room

Survey Date: 2024-03-05

Room #: 102 Last Re-Assessment: 0000-00-00 Area (sqft): 100

PB PRODUCTS

Unit Component Quantity Sample Hazard Batteries In Emer. Lights EΑ V9500 Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: B

Room #: 102

Area (sqft): 100

Last Re-Assessment: 0000-00-00

	MERCURY									
Componen	ıt	Quantity	Unit	Sample	Hazard					
Light Fixture	e	2	EA	V9000	Yes					

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #3: Electrical Room

Location: #3: Electrical Room

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Floor: B

Room #: 102

Area (sqft): 100

PCB								
Component	Quantity	Unit	Sample	Sample Description	Amount	PCB		
Transformer	1	EA				No		



Location: #4 : Basement Entryway

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: B

Building Name: Hammonds Plains Consolidated

Room #: Area (sqft): 130

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Other ¹	Door	Caulking, Brown			Α	Υ		7(7)			LF	S0007ABC	Chrysotile	0.5-5%	Confirmed Asbestos	NF

1 - Painted white

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #4 : Basement Entryway

Floor: B

Room #: Last Re-Assessment: 0000-00-00 Area (sqft): 130

Survey Date: 2024-03-05

Survey Date: 2024-03-05

	PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard		
Wall	Masonry	260		SF	V0001	White	Pb: 410 mg/kg	Lead (Low)		

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: B

Building Name: Hammonds Plains Consolidated

Room #:

Area (sqft): 130

Location: #4 : Basement Entryway Survey Date: 2024-03-05

Location: #4 : Basement Entryway

Survey Date: 2024-03-05

Last Re-Assessment: 0000-00-00

PB PRODUCTS									
Component	Quantity	Unit	Sample	Hazard					
Batteries In Emer. Lights	1	EA	V9500	Presumed					

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: B

Building Name: Hammonds Plains Consolidated

Room #:

Area (sqft): 130

Last Re-Assessment: 0000-00-00

MERCURY Component Unit Quantity Sample Hazard Light Fixture EΑ V9000 Yes





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Room #: 202

Survey Date: 2024-03-05

Location: #5: Reception Office

Last Re-Assessment: 0000-00-00

Area (sqft): 410

Last Re-Assessment: 000

MERCURY									
Component	Quantity	Unit	Sample	Hazard					
Light Fixture	5	EA	V9500	Presumed					

Client: HRCE

Location: #6: Office

Survey Date: 2024-03-05

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Boom #: 20

Building Name: Hammonds Plains Consolidated

Room #: 202C

Last Re-Assessment: 0000-00-00

Area (sqft): 100

	MERCURY									
Component	Quantity	Unit	Sample	Hazard						
Light Fixture	1	FΔ	V9500	Presumed						

Client: HRCE

Location: #7: Office

Survey Date: 2024-03-05

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Room #: 202B

Area (sqft): 153

MERCURY									
Component	Quantity	Unit	Sample	Hazard					
Light Fixture	2	EA	V9500	Presumed					





Client: HRCE

Location: #8: Office

Survey Date: 2024-03-05

Location: #9 : Classroom

Survey Date: 2024-03-05

Location: #10 : Lunch Room

Survey Date: 2024-03-05

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 202A

Area (sqft): 153

Last Re-Assessment: 0000-00-00

MERCURY									
Component	Quantity	Unit	Sample	Hazard					
Light Fixture	2	EA	V9500	Presumed					

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 205

Area (sqft): 644

Last Re-Assessment: 0000-00-00

MERCURY											
Component	Quantity	Unit	Sample	Hazard							
Light Fixture	5	EA	V9500	Presumed							

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 205A

Area (sqft): 164

MERCURY											
Component	Quantity	Unit	Sample	Hazard							
Light Fixture	2	EA	V9500	Presumed							





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Building Name: Hammonds Plains Consolidated

Location: #11: Classroom

Survey Date: 2024-03-05

Room #: Last Re-Assessment: 0000-00-00 Area (sqft): 748

PB PRODUCTS										
Component	Quantity	Unit	Sample	Hazard						
Batteries In Emer. Lights	1	EA	V9500	Presumed						

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #:

Area (sqft): 748

Last Re-Assessment: 0000-00-00

Survey Date: 2024-03-05

MERCURY Component Quantity Unit Sample Hazard Light Fixture EΑ V9500 Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #12 : Classroom Survey Date: 2024-03-05

Location: #11 : Classroom

Floor: M

Room #: 206

Area (sqft): 326

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" brown with brown and cream flecks			Α	Υ		126(7)			SF	S0011A	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #12 : Classroom

Survey Date: 2024-03-05

Floor: M

Room #: 206 Area (sqft): 326

MERCURY											
Component Quantity Unit Sample Hazard											
Light Fixture	5	EA	V9500	Presumed							



Survey Date: 2024-03-05

Client: HRCE

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Site: 2180 Hammonds Plains Road, Hammonds Client: HRCE

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #13 : Classroom Floor: M

Room #: Area (sqft): 400

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" white with light blue flecks			Α	Υ		200(7)			SF	S0012A	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Vinyl Floor Tile and Mastic, 12" dark green with flecks			А	Υ		165(7)			SF	S0013A	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Location: #13 : Classroom Room #: Area (sqft): 400 Survey Date: 2024-03-05

MERCURY											
Component	Quantity	Unit	Sample	Hazard							
Light Fixture	5	EA	V9500	Presumed							



Location: #14: Office

Location: #14: Office

Survey Date: 2024-03-05

Location: #15 : Classroom

Survey Date: 2024-03-05

Client: HRCE

Client: HRCE

Client: HRCE

Survey Date: 2024-03-05

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Site: 2180 Hammonds Plains Road, Hammonds Client: HRCE

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 205B Area (sqft): 100

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" medium grey with grey and white flecks			Α	Υ		100(7)			SF	S0014A	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 205B Area (sqft): 100

Last Re-Assessment: 0000-00-00

MERCURY									
Component	Quantity	Unit	Sample	Hazard					
Light Fixture	1	EA	V9500	Presumed					

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 216 Area (sqft): 743

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" beige with brown streaks			А	Y		743(7)			SF	S0015A	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds Client: HRCE

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #15 : Classroom Floor: M Room #: 216 Area (sqft): 743 Survey Date: 2024-03-05

Last Re-Assessment: 0000-00-00

•				PAINT				
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	2200		SF	V0004	Off-white	Pb: 150 mg/kg	Lead (Low)

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 216 Area (sqft): 743

Last Re-Assessment: 0000-00-00

MERCURY										
Component	Quantity	Unit	Sample	Hazard						
Light Fixture	11	EA	V9500	Presumed						

Location: #15 : Classroom

Survey Date: 2024-03-05



Location: #16 : Classroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Location: #16 : Classroom

Survey Date: 2024-03-05

Client: HRCE

Client: HRCE

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #: 217

Area (sqft): 734

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" medium green with white and green flecks			А	Υ		300(7)			SF	S0016A	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Vinyl Floor Tile and Mastic, 12" tan with beige flecks			А	Υ		434(7)			SF	S0017ABC	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #16 : Classroom Floor: M

Room #: 217 Area (sqft): 734

Last Re-Assessment: 0000-00-00

				PAINT				
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	2200		SF	L0004	Off-white	Pb: 150 mg/kg	Lead (Low)

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #: 217 Area (sqft): 734

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	11	EA	V9500	Presumed





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Building Name: Hammonds Plains Consolidated

Location: #17 : Classroom

Survey Date: 2024-03-05

Room #: 218

Area (sqft): 732

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" beige with brown streaks			Α	Υ		732(7)			SF	V0015	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #17 : Classroom

System

Wall

Floor: M

Room #: 218

Sample

V0004

Area (sqft): 732

Sample Description

Off-white

Last Re-Assessment: 0000-00-00

Amount

Pb: 150 mg/kg

Hazard

Lead (Low)

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Good

2200

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #17 : Classroom Survey Date: 2024-03-05

Survey Date: 2024-03-05

Floor: M

Item

Masonry

Room #: 218

Last Re-Assessment: 0000-00-00

Area (sqft): 732

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	11	EA	V9500	Presumed

PAINT

Unit

SF

Poor





Client: HRCE

Location: #18 : Classroom

Location: #18 : Classroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Location: #19: Washroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 219

Area (sqft): 740

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" teal with green and wite flecks			Α	Υ		740(7)			SF	S0018A	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

Building Name: Hammonds Plains Consolidated

Room #: 219

Area (sqft): 740

Last Re-Assessment: 0000-00-00

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	5	EA	V9500	Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS
Location: #19 : Washroom Floor: M

_

Area (sqft): 97

Room #: 220

Last Re-Assessment: 0000-00-00

Area (Sqit):

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar, Ceramic tile thinset		Ceramic Tiles	D	N		97(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall	All	Mortar, Ceramic tile thinset		Ceramic Tiles	D	N		300(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 220

Area (sqft): 97

Last Re-Assessment: 0000-00-00

MERCURYComponentQuantityUnitSampleHazardLight Fixture1EAV9500Presumed





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Building Name: Hammonds Plains Consolidated

Location: #20 : Janitor Room

Survey Date: 2024-03-05

Room #: 221 Area (sqft): 350

Last Re-Assessment: 0000-00-00

	ASBESTOS Vector Component Material Item Covering A* V* AP* Good Fair Poor Unit Sample Ashestos Type Amount Hazard Friable															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" teal with green and wite flecks			Α	Υ		350(7)			SF	S0018BC	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #20 : Janitor Room Survey Date: 2024-03-05

Floor: M

Room #: 221 Area (sqft): 350

Last Re-Assessment: 0000-00-00

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	5	EA	V9500	Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #21 : Classroom

Floor: M

Room #: 229

Area (sqft): 738

Survey Date: 2024-03-05 Last Re-Assessment: 0000-00-00

ASBE

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" beige with brown streaks			Α	Υ		738(7)			SF	S0015BC	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #21 : Classroom

Floor: M

Room #: 229 Area (sqft): 738

Last Re-Assessment: 0000-00-00

Survey Date: 2024-03-05

	PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard		
Wall	Masonry	2200		SF	V0004	Off-white	Pb: 150 mg/kg	Lead (Low)		

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #21 : Classroom

Room #: 229

Area (sqft): 738

Survey Date: 2024-03-05

Floor: M

Last Re-Assessment: 0000-00-00

MERCURY Quantity Unit Sample Hazard





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #22 : Girls Washroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Floor: M Room #: 225

Area (sqft): 332

Last Re-Assessment: 0000-00-00

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	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar		Ceramic Tiles	D	N		332(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall	All	Mortar		Ceramic Tiles	D	N		900(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #22 : Girls Washroom

Floor: M

Room #: 225 Area (sqft): 332

MERCURY									
Component	Quantity	Unit	Sample	Hazard					
Light Fixture	4	EA	V9500	Presumed					



Client: HRCE

Client: HRCE

Location: #23 : Kitchen

Survey Date: 2024-03-05

Location: #23 : Kitchen

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #: 222

Area (sqft): 450

Survey Da	Survey Date: 2024-03-05 Last Re-Assessment: 0000-00-00															
	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar		Ceramic Tiles	D	N		450(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall	All	Mortar		Ceramic Tiles	D	N		1350(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 222 Area (sqft): 450

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	4	EA	V9500	Presumed



Location: #24 : Cafeteria

Location: #24 : Cafeteria

Survey Date: 2024-03-05

Location: #24 : Cafeteria

Survey Date: 2024-03-05

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 213

Area (sqft): 3940

Area (sqft): 3940

Survey Date: 2024-03-05 Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Duct ¹		Mastic, Painted white			С	Υ		120(7)			LF	V9500	Presumed Asbestos		Presumed Asbestos	NF

1 - Can't sample due to height. Unable to confirm colour as it is painted over

Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 213

Last Re-Assessment: 0000-00-00

PB PRODUCTS									
Component	Quantity	Unit	Sample	Hazard					
Batteries In Emer. Lights	3	EA	V9500	Presumed					

Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 213 Area (sqft): 3940

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	5	EA	V9500	Presumed



Location: #25 : Caretaker Office

Location: #25 : Caretaker Office

Location: #26 : Boys Washroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Survey Date: 2024-03-05

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #:

Area (sqft): 165

Last Re-Assessment: 0000-00-00

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				PAINT				
System Item			Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	450		SF		Dark grey		No

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #:

Area (sqft): 165

Last Re-Assessment: 0000-00-00

	MERCURY											
Component	Quantity	Unit	Sample	Hazard								
Light Fixture	2	EA	V9000	Yes								

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #:

Area (sqft): 332

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar		Ceramic Tiles	D	N		332(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall	All	Mortar		Ceramic Tiles	D	N		900(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Location: #26 : Boys Washroom

Survey Date: 2024-03-05

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #:

Area (sqft): 332

MERCURY												
Component	Quantity	Unit	Sample	Hazard								
Light Fixture	4	EA	V9500	Presumed								





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #: 230 Area (sqft): 732

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 9" green with white streaks			Α	Υ		732(7)			SF	S0020A	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #27 : Classroom Floor: M

Room #: 230

Area (sqft): 732

Survey Date: 2024-03-05

Location: #28 : Classroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Location: #27 : Classroom

Survey Date: 2024-03-05

2024-03-05

Last Re-Assessment: 0000-00-00

MERCURY MERCURY											
Component	Quantity	Unit	Sample	Hazard							
Light Fixture	11	EA	V9500	Presumed							

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

Room #: 231

Area (sqft): 720

Area (sqft): 720

Last Re-Assessment: 0000-00-00

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	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 9" green with white streaks			А	Υ		720(7)			SF	S0020B	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

Location: #28 : Classroom

Room #: 231

	MERCURY											
Component	Quantity	Unit	Sample	Hazard								
Light Fixture	11	EA	V9500	Presumed								





Client: HRCE

Location: #29 : Classroom

Location: #29 : Classroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Room #: 232

Area (sqft): 735

Last Re-Assessment: 0000-00-00

				PAINT				
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	2200		SF	V0004	Off-white	Pb: 150 ma/ka	Lead (Low)

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Room #: 232

Area (sqft): 735

Last Re-Assessment: 0000-00-00

MERCURY											
Component	Quantity	Unit	Sample	Hazard							
Light Fixture	11	EA	V9500	Presumed							

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #: 233

Area (sqft): 748

Last Re-Assessment: 0000-00-00

Location: #30 : Classroom
Survey Date: 2024-03-05

Location: #30 : Classroom

Survey Date: 2024-03-05

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 9" green with white streaks			А	Y		748(7)			SF	S0020C	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Room #: 233

Area (sqft): 748

Floor: M

Last Re-Assessment: 0000-00-00

MERCURY Component Quantity Unit Sample Hazard 11 EΑ V9500 Light Fixture Presumed



Survey Date: 2024-03-05

Location: #31: Washroom

Survey Date: 2024-03-05

Client: HRCE

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #31 : Washroom Floor: M

Room #: 228 Area (sqft): 60

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar		Ceramic Tiles	D	N		60(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall	All	Mortar		Ceramic Tiles	D	N		180(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 228 Area (sqft): 60

MERCURY									
Component	Quantity	Unit	Sample	Hazard					
Light Fixture	4	EA	V9500	Presumed					





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #32 : Classroom Survey Date: 2024-03-05 Floor: M

Room #: 211 Area (sqft): 742

Last Re-Assessment: 0000-00-00

	MERCURY										
Component	Quantity	Unit	Sample	Hazard							
Light Fixture	11	EA	V9500	Presumed							

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #33 : Classroom Survey Date: 2024-03-05 Floor: M

Room #: 210

Area (sqft): 740

Last Re-Assessment: 0000-00-00

ASBESTOS ٧* Component Material Covering Α* AP* Good Fair Poor Unit Sample Amount Hazard Friable System Item Asbestos Type Vinyl Floor Tile and Mastic, 12" medium Confirmed Floor Α 120(7) SF S0014B Chrysotile 0.5-5% grey with grey and white flecks Asbestos Vinyl Floor Tile and Mastic, 12" grey with Confirmed SF Floor¹ ΑII Α 400(7) V9000 Confirmed Asbestos NF grey and white flecks Asbestos Vinyl Floor Tile and Mastic, 12" medium Confirmed Floor Αll Α 300(7) SF S0016B Chrysotile 0.5-5% NF green with white and green flecks Asbestos

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 210

Area (sqft): 740

Last Re-Assessment: 0000-00-00

PAINT											
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard			
Wall	Masonry	2200		SF	V0004	Off-white	Pb: 150 mg/kg	Lead (Low)			

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #33 : Classroom

Location: #33 : Classroom

Survey Date: 2024-03-05

Floor: M

Room #: 210

Area (sqft): 740

Survey Date: 2024-03-05

Room #: 2

MERCURY										
Component	Quantity	Unit	Sample	Hazard						
Light Fixture	11	EA	V9500	Presumed						

^{1 -} Homogenous installation with the other flooring present. No discreet area to sample.



Location: #34 : Classroom

Location: #34 : Classroom

Location: #34 : Classroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Client: HRCE

Survey Date: 2024-03-05

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 209

Area (sqft): 733

Area (sqft): 733

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" medium green with white and green flecks			А	Υ		733(7)			SF	V0016	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 209

Last Re-Assessment: 0000-00-00

	PAINT											
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard				
Wall	Masonry	2200		SF	V0004	Off-white	Pb: 150 mg/kg	Lead (Low)				

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

Room #: 209 Area (sqft): 733

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	11	EA	V9500	Presumed





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Room #: 204

Area (sqft): 350

Location: #35 : Copier Room Survey Date: 2024-03-05

Floor: M

Last Re-Assessment: 0000-00-00

MERCURY										
Component	Quantity	Unit	Sample	Hazard						
Light Fixture	5	EA	V9500	Presumed						

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Location: #36 : Staff Room Survey Date: 2024-03-05

Floor: M

Room #: 203

Area (sqft): 341

Last Re-Assessment: 0000-00-00

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	3	EA	V9500	Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #37: Staff Washroom Survey Date: 2024-03-05

Location: #37 : Staff Washroom

Survey Date: 2024-03-05

Floor: M

Room #: 203B Area (sqft): 60

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar		Ceramic Tiles	D	N		60(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall	All	Mortar		Ceramic Tiles	D	N		120(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 203B

Area (sqft): 60

MERCURY									
Component	Quantity	Unit	Sample	Hazard					
Light Fixture	1	EA	V9500	Presumed					





V9500

Presumed

Client: HRCE

Survey Date: 2024-03-05

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Location: #38 : Staff Washroom

Floor: M

Room #: 203C Area (sqft): 60

Last Re-Assessment: 0000-00-00

Last Re-Assessment: 0000-00-00

East to resessment out											0000 0	0 00					
								AS	BESTOS								
	System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
	Floor	All	Mortar		Ceramic Tiles	D	N		60(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
	Wall	All	Mortar		Ceramic Tiles	D	N		120(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Location: #38 : Staff Washroom

Light Fixture

Plains, NS
Floor: M Room #: 2

Survey Date: 2024-03-05

Room #: 203C

Area (sqft): 60

EΑ

MERCURY

Component Quantity Unit Sample Hazard

1





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 203

Area (sqft): 165

Last Re-Assessment: 0000-00-00

Location: #39 : Staff Area Hallway Survey Date: 2024-03-05

PAINT											
System	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard				
Wall	Masonry	300		SF	V0004	Off-white	Pb: 150 mg/kg	Lead (Low)			

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 203

Area (sqft): 165

Last Re-Assessment: 0000-00-00

Survey Date: 2024-03-05

Location: #39 : Staff Area Hallway

Location: #39 : Staff Area Hallway

Survey Date: 2024-03-05

PB PRODUCTS										
Component	Quantity	Unit	Sample	Hazard						
Batteries In Emer. Lights	1	EA	V9500	Presumed						

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 203

Area (sqft): 165

MERCURY										
Component	Quantity	Unit	Sample	Hazard						
Light Fixture	2	EA	V9500	Presumed						



Client: HRCE

Client: HRCE

Location: #40 : Hallway

Location: #40 : Hallway

Location: #40 : Hallway

Location: #40 : Hallway

Survey Date: 2024-03-05

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #: Area (sqft): 4200

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" medium green with white and green flecks			А	Υ		600(7)			SF	V0016	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Vinyl Floor Tile and Mastic, 12" off-white with red streaks			А	Υ		825(7)			SF	S0026AB	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Vinyl Floor Tile and Mastic, 12" yellow with red streaks			А	Υ		200(7)			SF	S0027AB	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Mortar		Ceramic Tiles	D	N		700(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall		Caulking, Black			А	Υ		16(7)			LF	S0028ABC	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Room #:

Area (sqft): 4200

Survey Date: 2024-03-05 Last Re-Assessment: 0000-00-00

PB PRODUCTS										
Component	Quantity	Unit	Sample	Hazard						
Batteries In Emer. Lights	8	EA	V9500	Presumed						

Site: 2180 Hammonds Plains Road, Hammonds Client: HRCE

Plains, NS

Floor: M Room #:

Area (sqft): 4200

Survey Date: 2024-03-05 Last Re-Assessment: 0000-00-00

MERCURY										
Component Quantity Unit Sample Haza										
Light Fixture	32	EA	V9500	Presumed						

Site: 2180 Hammonds Plains Road, Hammonds Client: HRCE

Plains, NS

Floor: M

Room #:

Area (sqft): 4200

Survey Date: 2024-03-05

MOULD										
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould		
Ceiling ¹	Ceiling Tiles (lay-in)	Υ	4	SF	V	9500		Presumed		

^{1 -} water stained ceiling tiles



Client: HRCE

Client: HRCE

Client: HRCE

Location: #41 : Office

Location: #41 : Office

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Survey Date: 2024-03-05

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #41 : Office Floor: M

Room #: 237

Area (sqft): 100

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" off-white with red streaks			Α	Υ		25(7)			SF	S0026C	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Vinyl Floor Tile and Mastic, 12" yellow with red streaks			Α	Υ		75(7)			SF	S0027C	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 237 Area (sqft): 100

Last Re-Assessment: 0000-00-00

PAINT											
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard			
Wall	Masonry	300		SF	V0004	Off White	Pb: 150 mg/kg	Lead (Low)			

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 237 Area (sqft): 100

MERCURY											
Component	Quantity	Unit	Sample	Hazard							
Light Fixture	2	EA	V9500	Presumed							





Site: 2180 Hammonds Plains Road, Hammonds Client: HRCE

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 237A Area (sqft): 220

Last Re-Assessment: 0000-00-00

MERCURY											
Component	Quantity	Unit	Sample	Hazard							
Light Fixture	2	EA	V9500	Presumed							

Client: HRCE

Location: #42 : Office

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: P

Building Name: Hammonds Plains Consolidated

Room #: Area (sqft): 1040

Last Re-Assessment: 0000-00-00

				PAINT				
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	1000		SF	V0001	White	Pb: 410 mg/kg	Lead (Low)

Client: HRCE Location: #43: Air Handling Room

Location: #43: Air Handling Room

Location: #43 : Air Handling Room

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: P

Room #:

Building Name: Hammonds Plains Consolidated

Last Re-Assessment: 0000-00-00

Area (sqft): 1040

PB PRODUCTS Component Unit Quantity Sample Hazard EΑ V9500 Batteries In Emer. Lights Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: P

Building Name: Hammonds Plains Consolidated

Room #:

Area (sqft): 1040

Survey Date: 2024-03-05	Last Re-Assessment: 0000-	00-00		
	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	4	EA	V9000	Yes



Survey Date: 2024-03-05

Location: #44 : Storage Room

Survey Date: 2024-03-05

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #44 : Storage Room Floor: M

Room #: 238

Area (sqft): 300

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" medium grey with grey and white flecks			А	Υ		300(7)			SF	S0014C	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Caulking, Black			А	Υ		8(7)			LF	V0028	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 238 Area (sqft): 300

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	1	EA	V9500	Presumed





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #45 : Server Room

Floor: M Survey Date: 2024-03-05

Room #: 239 Area (sqft): 80

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" medium grey with grey and white flecks			Α	Υ		80(7)			SF	V0014	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE

Survey Date: 2024-03-05

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #45 : Server Room

Floor: M

Room #: 239

Area (sqft): 80

Last Re-Assessment: 0000-00-00

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	1	EA	V9500	Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Area (sqft): 718

Location: #46 : Classroom Survey Date: 2024-03-05

Floor: M

Room #: 234

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" pale green with light green streaks			Α	Y		718(7)			SF	S0029ABC	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #46 : Classroom Survey Date: 2024-03-05

Floor: M

Room #: 234

Area (sqft): 718

Last Re-Assessment: 0000-00-00

					PAINT				
System	1	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall		Masonry	2200		SF	V0004	Off White	Pb: 150 mg/kg	Lead (Low)

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #46 : Classroom

Floor: M

Room #: 234

Last Re-Assessment: 0000-00-00

Area (sqft): 718

Survey Date: 2024-03-05

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Eivturo	11	ΓΛ	V/0E00	Drocumod





Client: HRCE

Location: #47 : Classroom

Location: #47 : Classroom

Location: #48 : Classroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 235

Area (sqft): 720

Last Re-Assessment: 0000-00-00

PAINT Good Unit Sample Sample Description System Item Poor Amount Hazard V0004 Off White Wall Masonry 2200 SF Pb: 150 mg/kg Lead (Low)

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Room #: 235

Area (sqft): 720

Last Re-Assessment: 0000-00-00

MERCURY Component Quantity Unit Sample Hazard Light Fixture 11 EΑ V9500 Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Area (sqft): 620

Floor: M Room #: 240

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" medium grey with grey and white flecks			Α	Υ		620(7)			SF	V0014	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Windows dated 2017

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 240

Area (sqft): 620

Last Re-Assessment: 0000-00-00

Survey Date: 2024-03-05

Location: #48 : Classroom

Location: #48 : Classroom

Survey Date: 2024-03-05

				PAINT				
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	1800		SF	V0004	Off White	Pb: 150 mg/kg	Lead (Low)

Windows dated 2017

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Component

Light Fixture

Building Name: Hammonds Plains Consolidated

Room #: 240

Area (sqft): 620

Last Re-Assessment: 0000-00-00

MERCURY Unit Quantity Sample

EΑ

Windows dated 2017

V9500

Hazard

Presumed





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #: 241

Area (sqft): 475

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" medium grey with grey and white flecks			Α	Υ		475(7)			SF	V0014	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Building Name: Hammonds Plains Consolidated

Location: #49 : Office Space Survey Date: 2024-03-05

Location: #49 : Office Space

Survey Date: 2024-03-05

Room #: 241

Area (sqft): 475

Last Re-Assessment: 0000-00-00

	PAINT												
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard					
Wall	Masonry	475		SF	V0004	Off White	Pb: 150 mg/kg	Lead (Low)					

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #49 : Office Space Survey Date: 2024-03-05

Floor: M

Room #: 241 Area (sqft): 475

Last Re-Assessment: 0000-00-00

	PB PRODUCTS			
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Building Name: Hammonds Plains Consolidated

Location: #49 : Office Space Survey Date: 2024-03-05

Room #: 241 Area (sqft): 475

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	6	EA	V9500	Presumed



Location: #50: Mechanical Room

Location: #50 : Mechanical Room

Location: #50 : Mechanical Room

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Survey Date: 2024-03-05

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M Room #: 273

Area (sqft): 520

Last Re-Assessment: 0000-00-00

PAINT Amount System Item Good Poor Unit Sample Sample Description Hazard Wall V0001 Masonry 1500 SF White Pb: 410 mg/kg Lead (Low)

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Room #: 273

Area (sqft): 520

Last Re-Assessment: 0000-00-00

	PB PRODUCTS			
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 273

Area (sqft): 520

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	5	EA	V9000	Yes



Location: #51 : Classroom

Location: #51 : Classroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 242

Area (sqft): 820

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" white with light blue flecks			А	Υ		720(7)			SF	S0012B	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Vinyl Floor Tile and Mastic, 12" dark green with flecks			Α	Υ		100(7)			SF	S0013B	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 242 Area (sqft): 820

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	11	EA	V9500	Presumed



Location: #52 : Washroom

Location: #52 : Washroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Client: HRCE

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 242A

Area (sqft): 60

Last Re-Assessment: 0000-00-00

	·															
							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar		Ceramic Tiles	D	N		60(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall	All	Mortar		Ceramic Tiles	D	N		180(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 242A Area (sqft): 60

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	1	EA	V9500	Presumed





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M Room #: 261 Area (sqft): 3835

Survey Date: 2024-03-05

Location: #53: Gymnasium And Stage

Last Re-Assessment: 0000-00-00

	PB PRODUCTS			
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	2	EA	V9500	Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Location: #53 : Gymnasium And Stage

Floor: M

Room #: 261

Area (sqft): 3835

Survey Date: 2024-03-05

Last Re-Assessment: 0000-00-00

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	16	EA	V9500	Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #54 : Locker/Storage Room Survey Date: 2024-03-05

Floor: M

Room #: Area (sqft): 400

Last Re-Assessment: 0000-00-00

	,	-														
							AS	BESTOS								
Syste	em Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floo	or All	Mortar		Ceramic Tiles	D	N		400(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wa	I	Mortar		Ceramic Tiles	D	N		300(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Location: #54 : Locker/Storage Room Survey Date: 2024-03-05

Floor: M

Room #: Area (sqft): 400

Last Re-Assessment: 0000-00-00

PB PRODUCTS									
Component	Quantity	Unit	Sample	Hazard					
Batteries In Emer. Lights	1	EA	V9500	Presumed					

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds Plains, NS

Room #:

Location: #54 : Locker/Storage Room

Floor: M

Area (sqft): 400

Survey Date: 2024-03-05

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	6	EA	V9500	Presumed



Location: #55 : Locker/Storage Room

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Site: 2180 Hammonds Plains Road, Hammonds Client: HRCE

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #: Last Re-Assessment: 0000-00-00 Area (sqft): 400

Survey Date: 2024-03-05

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar		Ceramic Tiles	D	N		400(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall ¹		Mortar		Ceramic Tiles	D	N		300(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

^{1 -} ceramic tiles mortared directly onto masonry blocks, observed above ceiling tiles

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #55 : Locker/Storage Room

Room #:

Area (sqft): 400

Survey Date: 2024-03-05

Floor: M Last Re-Assessment: 0000-00-00

	PB PRODUCTS			
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #55 : Locker/Storage Room

Floor: M

Room #: Area (sqft): 400

Survey Date: 2024-03-05

MERCURY								
Component	Quantity	Unit	Sample	Hazard				
Light Fixture	6	EA	V9500	Presumed				





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #56 : Gym Storage Room

Floor: M Room #:

Area (sqft): 200

Survey Date: 2024-03-05

Last Re-Assessment: 0000-00-00

	ASBESTOS ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" medium grey with grey and white flecks			Α	Υ		200(7)			SF	V0014	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #56 : Gym Storage Room

Floor: M

Room #: Area (sqft): 200

Last Re-Assessment: 0000-00-00

Survey Date: 2024-03-05

La:

MERCIRY

Component	Quantity	Unit	Sample	Hazard
Light Fixture	3	EA	V9000	Yes

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #57 : Gym Storage Survey Date: 2024-03-05 Λ

Floor: M

Room #: Area (sqft): 400

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	4	EA	V9500	Presumed





V9500

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Room #: 266

Building Name: Hammonds Plains Consolidated

Location: #58 : Gym Office Survey Date: 2024-03-05

Location: #59 : Washroom

Location: #59: Washroom

Survey Date: 2024-03-05

Floor: M

Last Re-Assessment: 0000-00-00

Area (sqft): 85

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	1	EA	V9000	Yes

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #: 265

Area (sqft): 40

Last Re-Assessment: 0000-00-00

							AS	BESTOS
System	Component	Material	Item	Covering	A*	V*	AP*	Good
				o :				

Light Fixture

System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar		Ceramic Tiles	D	N		40(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall		Mortar		Ceramic Tiles	D	N		120(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 265

Area (sqft): 40

EΑ

Survey Date: 2024-03-05 Last Re-Assessment: 0000-00-00 MERCURY Component Quantity Unit Sample Hazard

2024-04-0	3
2024 04 0	J

Presumed



Location: #60 : Classroom

Location: #60 : Classroom

Location: #61: Washroom

Location: #61: Washroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Client: HRCE

Client: HRCE

Client: HRCE

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Site: 2180 Hammonds Plains Road, Hammonds Client: HRCE

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 245 Area (sqft): 820

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" brown with brown and cream flecks			А	Υ		200(7)			SF	V0011	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 245 Area (sqft): 820

Last Re-Assessment: 0000-00-00

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	5	EA	V9500	Presumed

Site: 2180 Hammonds Plains Road, Hammonds

Tiles

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Area (sqft): 60 Room #: 246A

Last Re-Assessment: 0000-00-00

ASBESTOS Α* ٧* AP* Good Component Material Covering Fair Sample Asbestos Type Hazard Friable System Item Poor Unit Amount Ceramic Presumed ΑII D Ν SF V9500 NF Floor Mortar 60(7) Presumed Asbestos Tiles Asbestos Ceramic Presumed D Ν SF V9500 NF Wall Αll Mortar 180(7) Presumed Asbestos

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Building Name: Hammonds Plains Consolidated

Room #: 246A

Area (sqft): 60

Last Re-Assessment: 0000-00-00

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	1	EA	V9500	Presumed

Asbestos



Client: HRCE

Client: HRCE

Location: #62 : Classroom

Location: #62 : Classroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #: 246

Last Re-Assessment: 0000-00-00

Area (sqft): 820

							AS	BESTOS								
System	Component	Material	Item	Covering	Α*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" white with light blue flecks			Α	Υ		640(7)			SF	S0012C	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Vinyl Floor Tile and Mastic, 12" dark green with flecks			Α	Υ		100(7)			SF	S0013C	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 246 Area (sqft): 820

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	11	EA	V9500	Presumed



Location: #63 : Washroom

Location: #63 : Washroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Client: HRCE

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 246A

Area (sqft): 60

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar		Ceramic Tiles	D	N		60(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall	All	Mortar		Ceramic Tiles	D	N		180(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 246A Area (sqft): 60

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	1	EA	V9500	Presumed



Location: #64 : Library

Location: #64 : Library

Survey Date: 2024-03-05

Location: #65 : Classroom

Survey Date: 2024-03-05

Client: HRCE

Client: HRCE

Client: HRCE

Survey Date: 2024-03-05

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 247

Area (sqft): 1100

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" brown with brown and cream flecks			Α	Υ		900(7)			SF	V0011	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

Room #: 247

Area (sqft): 1100

Last Re-Assessment: 0000-00-00

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	5	EA	V9500	Presumed

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

Room #: 249

Area (sqft): 755

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" white with light blue flecks			А	Υ		655(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Vinyl Floor Tile and Mastic, 12" dark green with flecks			А	Υ		100(7)			SF	V0013	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

Room #: 249

Area (sqft): 755

Location: #65 : Classroom

Survey Date: 2024-03-05

) NE

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	11	EA	V9500	Presumed



Location: #66 : Classroom

Location: #66 : Classroom

Location: #67 : Classroom

Location: #67 : Classroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Client: HRCE

Client: HRCE

Client: HRCE

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 250

Area (sqft): 740

Area (sqft): 740

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" brown with brown and cream flecks			Α	Υ		200(7)			SF	S0011B	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

r: M Room #: 250

Last Re-Assessment: 0000-00-00

MERCURY										
Component	Quantity	Unit	Sample	Hazard						
Light Fixture	5	EA	V9500	Presumed						

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

Room #: 251 Area (sqft): 740

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" white with light blue flecks			А	Υ		640(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Vinyl Floor Tile and Mastic, 12" dark green with flecks			А	Υ		100(7)			SF	V0013	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

Room #: 251 Area (sqft): 740

MERCURY										
Component	Quantity	Unit	Sample	Hazard						
Light Fixture	11	EA	V9500	Presumed						



Location: #68 : Classroom

Location: #68 : Classroom

Location: #69 : Classroom

Location: #69 : Classroom

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Survey Date: 2024-03-05

Client: HRCE

Client: HRCE

Client: HRCE

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 252

Area (sqft): 740

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" brown with brown and cream flecks			Α	Υ		200(7)			SF	S0011C	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

Room #: 252 Area (sqft): 740

Last Re-Assessment: 0000-00-00

MERCURY										
Component	Quantity	Unit	Sample	Hazard						
Light Fixture	5	EA	V9500	Presumed						

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M Room #: 253 Area (sqft): 740

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" white with light blue flecks			Α	Υ		640(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Vinyl Floor Tile and Mastic, 12" dark green with flecks			Α	Υ		100(7)			SF	V0013	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

Room #: 253 Area (sqft): 740

	MERCURY														
Component	Quantity	Unit	Sample	Hazard											
Light Fixture	11	EA	V9500	Presumed											



Location: #70 : Music Room

Location: #71: Stage Hallway

Survey Date: 2024-03-05

Survey Date: 2024-03-05

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Room #: 257

Floor: M

Area (sqft): 1085

Last Re-Assessment: 0000-00-00

	MERCURY											
Component	Quantity	Unit	Sample	Hazard								
Light Fixture	13	EA	V9500	Presumed								

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Floor: M

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Room #: 256

Area (sqft): 150

Last Re-Assessment: 0000-00-00

ASBESTOS V* AP* System Component Material Covering Α* Good Fair Poor Unit Sample Asbestos Type Amount Hazard Friable Item Vinyl Floor Tile and Mastic, 12" medium Confirmed Floor Α 50(7) SF S0016C Chrysotile 0.5-5% green with white and green flecks Asbestos

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Building Name: Hammonds Plains Consolidated

Area (sqft): 150

Area (sqft): 150

Location: #71 : Stage Hallway

Survey Date: 2024-03-05

Room #: 256

Last Re-Assessment: 0000-00-00

PB PRODUCTS										
Component	Quantity	Unit	Sample	Hazard						
Batteries In Emer. Lights	1	EA	V9500	Presumed						

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Building Name: Hammonds Plains Consolidated

Location: #71 : Stage Hallway

Room #: 256

Survey Date: 2024-03-05

MERCURY										
Component	Quantity	Unit	Sample	Hazard						
Light Fixture	2	EA	V9000	Yes						





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Location: #72 : Staff Washroom

Location: #72 : Staff Washroom

Survey Date: 2024-03-05

Floor: M Survey Date: 2024-03-05

Room #: 264 Area (sqft): 60

Last Re-Assessment: 0000-00-00

							AS	BESTOS								
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar		Ceramic Tiles	D	N		60(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall	All	Mortar		Ceramic Tiles	D	N		180(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Room #: 264

Area (sqft): 60

MERCURY										
Component	Quantity	Unit	Sample	Hazard						
Light Fixture	1	EA	V9500	Presumed						





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #:

Area (sqft): 280

Location: #73: Girls Washroom Survey Date: 2024-03-05

Location: #73: Girls Washroom

Survey Date: 2024-03-05

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar		Ceramic Tiles	D	N		280(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall	All	Mortar		Ceramic Tiles	D	N		850(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M

Building Name: Hammonds Plains Consolidated

Room #:

Area (sqft): 280

	MERCURY										
Component	Quantity	Unit	Sample	Hazard							
Light Fixture	6	EA	V9500	Presumed							





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #74 : Janitor Closet Survey Date: 2024-03-05

Location: #74 : Janitor Closet

Survey Date: 2024-03-05

Floor: M

Room #: 269

Area (sqft): 25

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" medium grey with grey and white flecks			Α	Υ		25(7)			SF	V0014	Chrysotile	0.5-5%	Confirmed Ashestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #: 269

Area (sqft): 25

Last Re-Assessment: 0000-00-00

	MERCURY										
Component	Quantity	Unit	Sample	Hazard							
Light Fixture	1	EA	V9000	Yes							

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #75 : Boys Washroom Survey Date: 2024-03-05

Location: #75 : Boys Washroom

Survey Date: 2024-03-05

Floor: M

Room #: 270 Area (sqft): 250

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Mortar		Ceramic Tiles	D	N		250(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall	All	Mortar		Ceramic Tiles	D	N		875(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Room #: 270

Area (sqft): 250

Floor: M

	MERCURY			
Component	Quantity	Unit	Sample	Hazard
Light Fixture	6	EA	V9500	Presumed



Client: HRCE

Location: #76: Hallway

Survey Date: 2024-03-05

Location: #76: Hallway

Location: #76: Hallway

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Floor: M

Room #: Area (sqft): 3340

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	All	Vinyl Floor Tile and Mastic, 12" medium green with white and green flecks			Α	Υ		600(7)			SF	V0016	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Vinyl Floor Tile and Mastic, 12" off-white with red streaks			А	Υ		400(7)			SF	V0026	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Vinyl Floor Tile and Mastic, 12" yellow with red streaks			A	Υ		80(7)			SF	V0027	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor	All	Mortar		Ceramic Tiles	D	N		150(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Site: 2180 Hammonds Plains Road, Hammonds Client: HRCE

Plains, NS

Floor: M Room #: Area (sqft): 3340

Survey Date: 2024-03-05 Last Re-Assessment: 0000-00-00

	PB PRODUCTS										
Component	Quantity	Unit	Sample	Hazard							
Batteries In Emer. Lights	6	EA	V9500	Presumed							

Site: 2180 Hammonds Plains Road, Hammonds Client: HRCE

Plains, NS Floor: M

Building Name: Hammonds Plains Consolidated

Building Name: Hammonds Plains Consolidated

Room #: Area (sqft): 3340

Survey Date: 2024-03-05	Last Re-Assessment: 0000-00-00										
	MERCURY										
Component	Quantity	Unit	Sample	Hazard							
Light Eivture	2/	ΕΛ	V/0000	Vac							





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #77 : Gym Vestibule Survey Date: 2024-03-05

Floor: M

Room #: Area (sqft): 80

Last Re-Assessment: 0000-00-00

	ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Mortar		Ceramic Tiles	D	N		80(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE

Survey Date: 2024-03-05

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS

Building Name: Hammonds Plains Consolidated

Location: #77 : Gym Vestibule

Floor: M

Room #: Area (sqft): 80

	MERCURY										
Component	Quantity	Unit	Sample	Hazard							
Light Fixture	1	EA	V9500	Presumed							





Client: HRCE

Site: 2180 Hammonds Plains Road, Hammonds

Plains, NS Floor: M **Building Name: Hammonds Plains Consolidated**

Room #:

Area (sqft): 200

Location: #78 : Utility Room Survey Date: 2024-03-05

MERCURY										
Component	Quantity	Unit	Sample	Hazard						
Light Fixture	2	EA	V9000	Yes						



CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT



Legend:

Sample number		Units		Other		
S####	Asbestos sample collected	SF	Square feet	Α	Access	
L####	Paint sample collected	LF	Linear feet	V	Visible	
P####	PCB sample collected	EA	Each	AP	Air Plenum	
M####	Mould sample collected	%	Percentage	F	Friable material	
V####	Material is visually identified to be identical to S####	LF	Linear feet	NF	Non Friable material	
V0000	Known non hazardous material			PF	Potentially Friable material	
V9000	Material visually identified as a Hazardous Material			Pb	Lead	
V9500	Material is presumed to be a hazardous material			Hg	Mercury	
				As	Arsenic	
				Cr	Chromium	

Acces	s	Conditi	ion
Α	Accessible to all building occupants	Good	No visible damage or deterioration
В	Accessible to maintenance and operations staff without a ladder	Fair	Minor, repairable damage, cracking, d
С	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas	Poor	Irreparable damage or deterioration w
D	Not normally accessible		

Visible	
Υ	The material is visible when standing on the floor of the room, without the removal or opening of other building components (e.g. ceiling tiles or access panels).

The material is not visible to view when standing on the floor of the room and requires the removal of a building component (e.g. ceilings tiles or access panels) to view and Ν access. Includes rarely entered crawlspaces, attic spaces, etc. Observations will be limited to the extent visible from the access points.

Colour Coding

The material is known to contain regulated concentrations of asbestos; either by The material is presumed to contain asbestos; based on visual appearances; typically a access or the destructive nature of the sampling.

delamination or deterioration

with exposed and missing material

Air Plenum

Yes or No

The material is in a return air plenum or in a direct airstream or there is evidence of air erosion (e.g. duct for heating or cooling blowing directly on or across an ACM). This field is only completed where Air Plenum consideration is required by regulation.

analytical results or visible identification (use of the V9000 code). material known to historically contain asbestos; however, not sampled due to limited

Action

(1)	Clean up of ACM Debris	(2)	Precautions for Access Which may Disturb ACM Debris	(3)	ACM removal
(4)	Precautions for Work Which may Disturb ACM in Poor Condition	(5)	Proactive ACM removal (Minimum repair required for fair condition)	(6)	ACM repair

(7) Management program and surveillance

APPENDIX VII Photographs





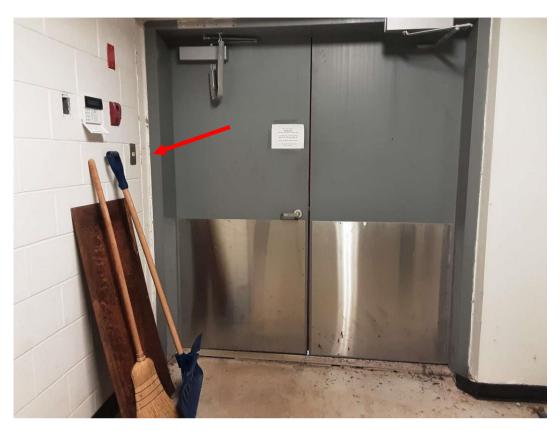
S0001C (None), Grey, Ceiling, All, Fireproofing (Fibrous), Boiler Room (Location #: 1)



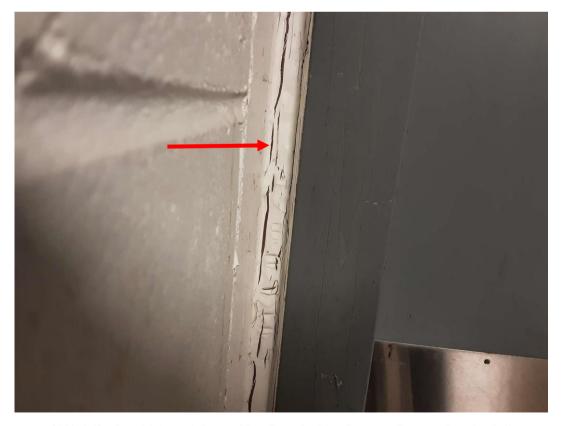
S0002C (Confirmed Asbestos), Piping, Domestic Water (Hot and Cold), Parging Cement, Boiler Room (Location #: 1)

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S0007A (Confirmed Asbestos), Brown, Other, Door, Caulking, Basement Entryway (Location #: 4) Painted white



S0007A (Confirmed Asbestos), Brown, Other, Door, Caulking, Basement Entryway (Location #: 4)
Painted white

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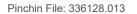


S0011A (Confirmed Asbestos), 12" brown with brown and cream flecks, Floor, All, Vinyl Floor Tile and Mastic, Classroom (Location #: 12)

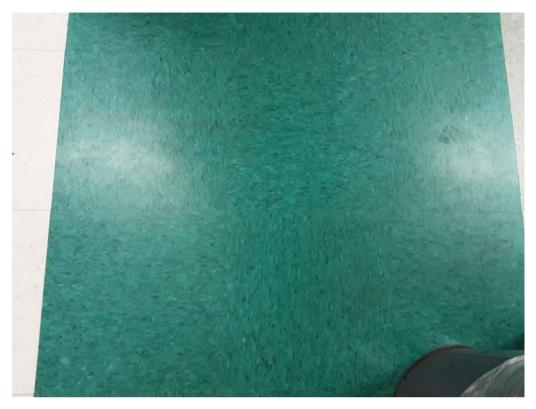


S0012A (Confirmed Asbestos), 12" white with light blue flecks, Floor, All, Vinyl Floor Tile and Mastic, Classroom (Location #: 13)

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S0013A (Confirmed Asbestos), 12" dark green with flecks, Floor, All, Vinyl Floor Tile and Mastic, Classroom (Location #: 13)

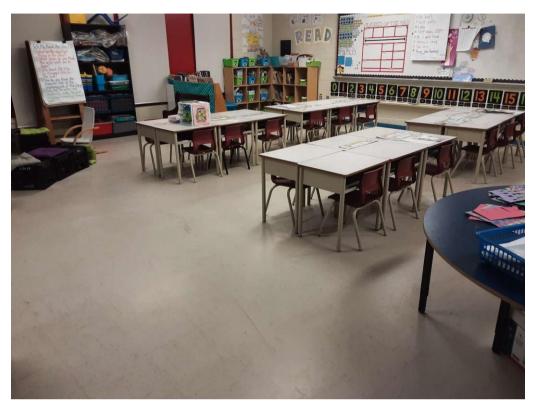


S0014A (Confirmed Asbestos), 12" medium grey with grey and white flecks, Floor, All, Vinyl Floor Tile and Mastic, Office (Location #: 14)

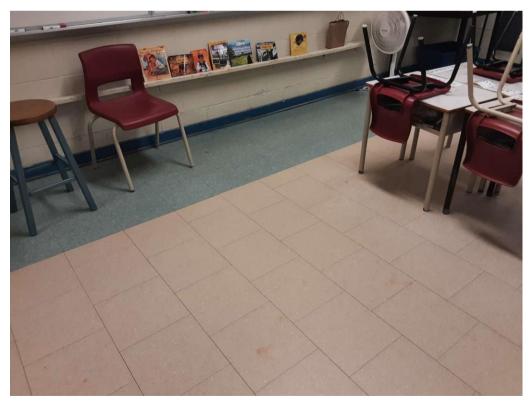
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S0015A (Confirmed Asbestos), 12" beige with brown streaks, Floor, All, Vinyl Floor Tile and Mastic, Classroom (Location #: 15)



S0016A (Confirmed Asbestos), 12" medium green with white and green flecks, Floor, All, Vinyl Floor Tile and Mastic, Classroom (Location #: 16)

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S0017A (Confirmed Asbestos), 12" tan with beige flecks, Floor, All, Vinyl Floor Tile and Mastic, Classroom (Location #: 16)



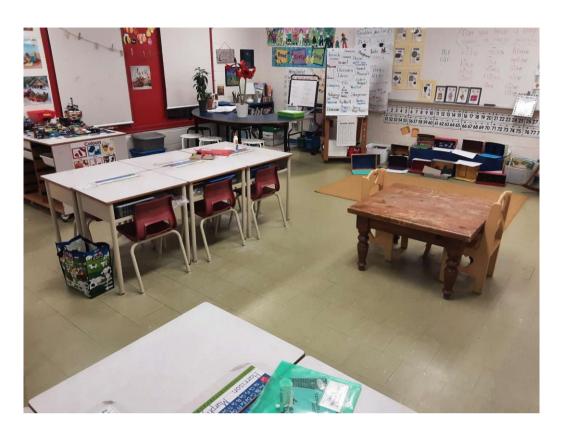
S0018A (Confirmed Asbestos), 12" teal with green and wite flecks, Floor, All, Vinyl Floor Tile and Mastic, Classroom (Location #: 18)

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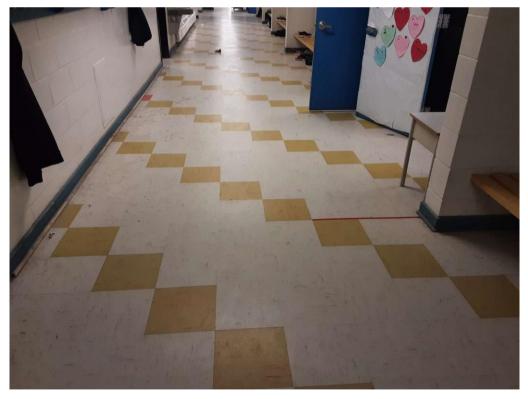
Pinchin File: 336128.013



PINCHII



S0020A (Confirmed Asbestos), 9" green with white streaks, Floor, All, Vinyl Floor Tile and Mastic, Classroom (Location #:



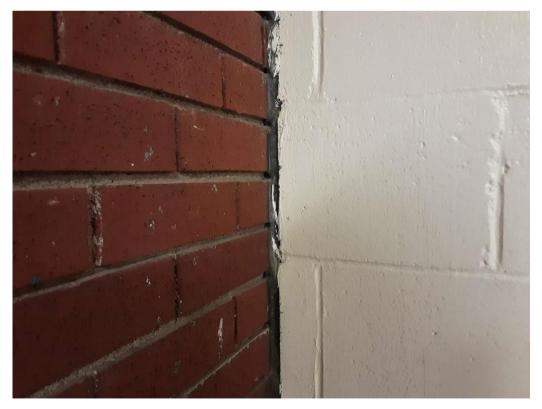
S0026A (Confirmed Asbestos), 12" off-white with red streaks, Floor, All, Vinyl Floor Tile and Mastic, Hallway (Location #:

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S0027A (Confirmed Asbestos), 12" yellow with red streaks, Floor, All, Vinyl Floor Tile and Mastic, Hallway (Location #. 40)

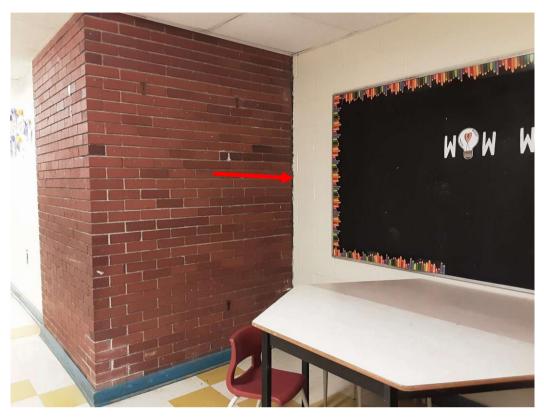


S0028C (Confirmed Asbestos), Black, Wall, Caulking, Hallway (Location #: 40)

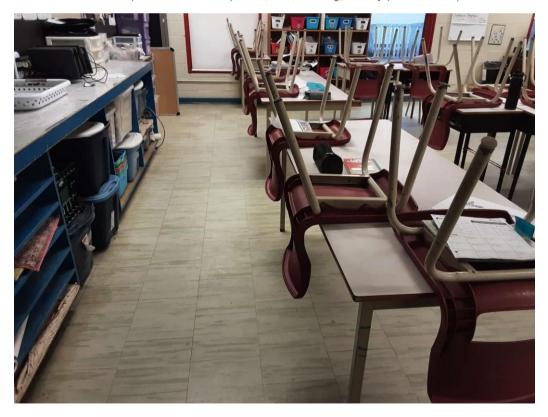
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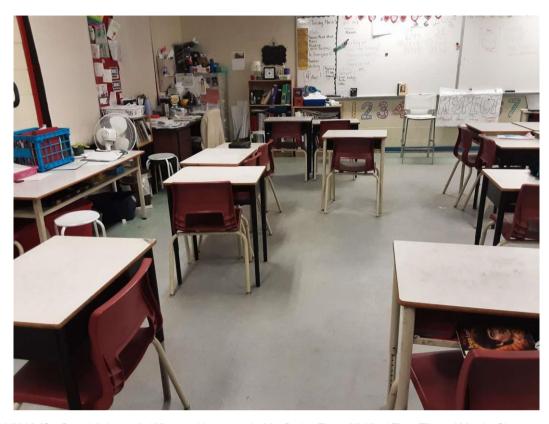
S0028C (Confirmed Asbestos), Black, Wall, Caulking, Hallway (Location #: 40)



S0029C (Confirmed Asbestos), 12" pale green with light green streaks, Floor, All, Vinyl Floor Tile and Mastic, Classroom (Location #: 46)

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V9000 (Confirmed Asbestos), 12" grey with grey and white flecks, Floor, All, Vinyl Floor Tile and Mastic, Classroom (Location #: 33)

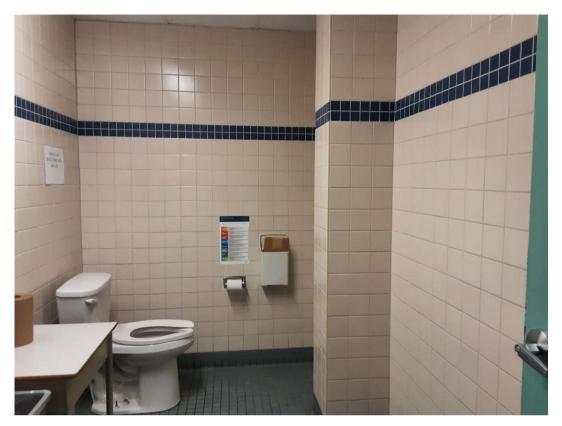
Homogenous installation with other flooring present. No discreet area to sample



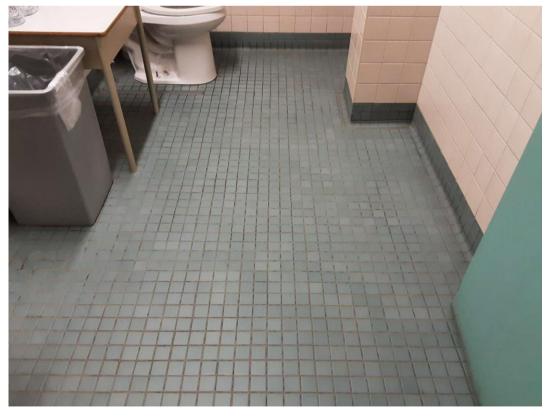
V9500 (Presumed Asbestos), Painted white, Duct, Mastic, Cafeteria (Location #: 24) Can't sample due to height. Unable to confirm colour as it is painted over.

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V9500 (Presumed Asbestos), Wall, All, Mortar, Ceramic tile thinset Staff Washroom (Location #. 37)



V9500 (Presumed Asbestos), Floor, All, Mortar, Ceramic tile thinset Staff Washroom (Location #: 37)

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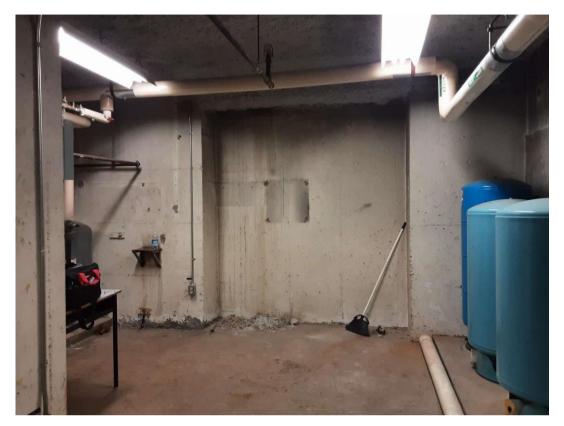
V9500 (Presumed Asbestos), Floor, All, Mortar, Ceramic tile thinset Hallway (Location #: 40)



V0000 (None), 12" dark blue with flecks, Floor, All, Vinyl Floor Tile and Mastic, Music Room (Location #: 70) Homogenous installation with other flooring present. No discreet area to sample

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L0001(Lead, Low), White, Wall, Boiler Room (Location #: 1)



L0004 (Lead, Low), Off-white, Wall, Classroom (Location #: 16)

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Lead Products, V9000(Yes), BELL AND SPIGOT FITTINGS, Boiler Room (Location #: 1)



Lead Products, V9500(Presumed), Batteries in Emer. Lights, Staff Area Hallway (Location #: 39)

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Mercury, V9000 (Yes), LIGHT FIXTURE, Caretaker Office (Location #: 25)

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FINAL Asbestos Management Program

HRCE Facilities

Prepared for:

Halifax Regional Centre for Education

33 Spectacle Lake Drive
Dartmouth, Nova Scotia B3B 1W8

August 28, 2023

Pinchin File: 322126.000

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IMPORTANT CONTACTS

HRCE and Facility Management Contacts

Title/Function	Contact Name	Phone	Email
AMP Facilitator	Geoffrey Olsson	902.220.1290,	Geoff.olsson@HRCE.ca
AMP Facilitator Back-up	Kavita Khanna	902.237.0247,	kkhanna@HRCE.ca
After hours emergency reporting	After hours manager on call	902.493.5110	

Pinchin Contacts

Contact Name	Phone	Email		
Jackson Munro	902.220.7203	jmunro@pinchin.com		
After Hours Emergency Line	1.800.577.2653			

Approved Abatement Contractors

Company	Contact Name	Phone	Email
First On Site	Jason Kerrivan	902.434.7199	ikerrivan@firstonsite.ca

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1.0 INTRODUCTION

Halifax Regional Centre for Education (HRCE) is committed to protect the health and safety of workers and occupants. This Asbestos Management Program (AMP) has been developed to meet responsibilities as an employer, and as a building owner to manage operational issues respecting asbestos and to maintain compliance with applicable regulations for disturbance of asbestos-containing materials (ACM) during demolition, renovation, alteration, maintenance, repair or other activities.

2.0 SCOPE

The AMP provides information and procedures for Asbestos Management of all HRCE owned or occupied facilities in Nova Scotia.

The AMP applies to all HRCE staff as well as all service providers and contractors performing work in HRCE facilities.

The AMP outlines requirements for HRCE personnel involved in acquisition of property which may contain ACM. It applies to all categories of property with the exception of vacant lands. If HRCE decides to lease property in the future ACM should be considered when developing their lease agreement and this AMP should be amended to address leased properties occupied by the HRCE.

The AMP is a management system to control the disturbance of ACM during demolition, renovation, alteration, maintenance, repair or other activities.

The AMP incorporates the following elements:

- Asbestos Assessments and Reassessments.
- Regulatory Requirements and HRCE Policies.
- Roles and Responsibilities.
- Notifications.
- Training Requirements.
- Emergency Reaction and Procedures.
- Record Keeping.
- Contractor Requirements.

3.0 OBJECTIVE

The AMP is a management system primarily intended to identify ACM and control disturbance of ACM by using proper procedures during demolition, renovation, alteration, maintenance, repair or other activities. The objective in preparing and instituting this AMP is to ensure that known or suspected ACM is managed

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so that maintenance staff, construction workers and occupants are safeguarded in accordance with applicable regulations.

4.0 BACKGROUND INFORMATION AND HEALTH EFFECTS

The following is a very brief summary of the hazards and health effects from asbestos exposure:

- Occupational exposure to asbestos can cause fatal lung disease.
- Asbestos must become airborne and be inhaled to be hazardous. A physical disturbance
 or direct contact with ACM is required to cause it to become airborne. The mere presence
 of asbestos is not hazardous.
- Asbestos may remain in buildings so long as it is in good condition and undisturbed. No Provincial or Federal Regulations require the removal of ACM as long as it is enclosed, encapsulated or managed appropriately and removed prior to building demolition.

5.0 REGULATORY REQUIREMENTS AND HRCE POLICIES

5.1 Regulatory Requirements

This AMP was implemented in response to the following legislation in effect as of August 28, 2023.

All building operations, whether performed by HRCE, or service providers, shall adhere to the requirements outlined in this document and all applicable regulations, guidance documents and acceptable professional standards.

The following regulations and guidelines were in place at the time this AMP was prepared:

- Occupational Health and Safety Act, N.S. Reg. 52/2013.
- 2. A Guide to Removal of Friable Asbestos-Containing Material.
- 3. A Guide to Assessment and Management of Asbestos in the Workplace.
- 4. Asbestos Waste Management Regulations, N.S. Reg. 53/95

6.0 HRCE POLICIES RELATED TO ASBESTOS

HRCE has established the following policies related to asbestos independent of applicable regulations:

- HRCE may opt for removal of ACM with minor damage as opposed to repair or encapsulation when cost-effective unless removal is not practicable. ACM with major damage must be removed.
- At existing leased properties where HRCE is a tenant, when ACM is discovered during any improvement, addition, renovation, demolition, maintenance, repair of any kind, or at

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any other time, the Owner (Landlord) shall promptly remove the ACM from the leased premises, if possible within the existing lease agreement.

- HRCE may perform Low Risk asbestos operations, where appropriately trained to perform the work.
- All Moderate and High asbestos operations must be undertaken by an Asbestos
 Abatement Contractor. Asbestos Abatement Contractors may also perform Low Risk
 asbestos operations.

7,0 ASBESTOS-CONTAINING MATERIALS AT HRCE FACILITIES

Refer to the individual Asbestos Assessment or subsequent Asbestos Reassessment Reports prepared for the Facility, provided in Appendix G. In some cases, Hazardous Materials Assessment or Designated Substance Survey Reports have been prepared and these reports include information regarding asbestos and other hazardous materials (e.g. lead, mercury, silica, and PCBs).

All assessment reports or subsequent Asbestos Reassessment Reports have been, or will be, prepared to comply with applicable asbestos regulations and this AMP.

Asbestos Assessment Reports are key components of this AMP, as the reports define the locations of ACM and Presumed ACM (PACM) present in the facility, the condition of ACM, the friability, the type of asbestos and the approximate quantity.

7.1 Asbestos Assessments

Refer to the Asbestos Assessment or Hazardous Building Materials Assessment Report in Appendix G for further information on the methodology of the assessment(s) completed for the Facility.

HRCE will engage a Consultant to perform asbestos assessments for all facilities. The report is to be completed following a methodology compliant with applicable regulations and acceptable professional standards. The report must comment on the condition of the ACM, include recommendations for remedial action, and is to include the risk classification for any abatement required.

In facilities which are leased, copies of the initial asbestos assessment, and any subsequent reassessments, shall be provided by the Owner to HRCE, and maintained on Site, or HRCE will have an asbestos assessment report prepared and complete subsequent reassessments, limited to the leased space.

7.2 Reassessment of ACM

All ACM and PACM identified in the Facilities will be inspected at reasonable intervals, and at minimum annually, a reassessment of all ACM and PACM will be completed with written documentation.

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The reassessment of ACM and PACM will be completed by a Consultant (Qualified Person) or HRCE staff, using the form provided in Appendix E.

7.2.1 Reassessment in Unassessed Areas

Where assessments have been completed in only a portion of schools, all non-sampled materials (including but not limited to ceiling tiles, vinyl floor tiles, vinyl sheet floor, etc.) are to be presumed to contain asbestos, and reassessed during their yearly inspection of the suites.

When feasible, arrangements should be made to access previously unassessed areas during the annual reassessments. If during any annual or other inspections, materials not previously sampled are found to be damaged (spalling finishes, debris, etc.), samples are to be collected and the material is to be identified as asbestos or non-asbestos. Remedial action and removal procedures are to be decided accordingly if the materials are found to contain asbestos.

7.3 Distribution of Assessment and Reassessment Reports

HRCE will ensure that each assessment and reassessment report is distributed or accessible to the following:

- HRCE JOHSC and/or Occupational Health and Safety Representative (OHS Representative).
- A hard copy will be sent to each facility. Electronic copies will be made available.
- Building Operators, Maintenance Personnel, Janitorial Staff.
- Project Managers or Construction Managers planning or performing work in a HRCE Building.
- Outside contractors that could potentially disturb ACM through their work.

8.0 PRE-CONSTRUCTION HAZARDOUS BUILDING MATERIALS ASSESSMENT

Prior to the commencement of any work that requires renovation, construction or demolition, the Facility or specific areas of the Facility to be impacted by the work shall be assessed for ACM, as well as other hazardous building materials (e.g. lead, mercury, silica, and PCBs), (the "**Pre-Construction Hazardous Building Materials Assessment**").

The Pre-Construction Hazardous Building Materials Assessment must be performed by a Consultant and include destructive or intrusive testing of enclosed areas.

Sampling may include the following:

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- Prior to disturbance of materials presumed to contain asbestos listed in the assessment reports, collect samples of materials that were not previously sampled/identified (refer to Asbestos Assessment Report or Hazardous Materials Report).
- Unidentified suspect materials that were not sampled during the initial survey, but which
 may be present located within enclosed areas such as pipe/duct insulations in ceiling
 spaces, chases or shafts. If such areas will be affected by the work, entry to these areas
 and sampling of suspect materials shall be performed.
- Assessment of existing visible floor, wall and ceiling finishes to assess and sample concealed finishes (e.g., vinyl flooring under carpet or other vinyl flooring, drywall over plaster, etc.)
- Other hazardous building materials shall be sampled and analyzed or identified prior to disturbance as required by provincial regulatory requirements. Other hazardous building materials may include lead, mercury, silica, polychlorinated biphenyls, mould, etc.

Upon receiving the Pre-Construction Hazardous Building Materials Assessment report, if asbestos and/or other hazardous building materials are present in the area, specifications (large scale projects) or a scope of work (small scale projects) for removal shall be prepared, provided, and reviewed by the Constructor or contractor prior to any renovation, construction, or demolition work.

HRCE will employ an Abatement Contractor to perform abatement of other hazardous materials and/or ACM that may be disturbed by construction, renovation, or demolition work using appropriate regulated procedures.

9.0 REMEDIAL WORK – DAMAGED MATERIALS

Where damage is observed, HRCE will refer to the existing Asbestos or Hazardous Building Materials Assessment or subsequent Asbestos Reassessment Reports (as required) to determine if the damaged materials are ACM or PACM.

Where damaged suspected asbestos-containing materials are <u>not</u> included in the existing Asbestos or Hazardous Building Materials Assessment Report(s), an assessment and/or sampling of these damaged materials must be conducted prior to repair of damage, unless materials are treated as ACM, and appropriate asbestos operations are followed.

If damaged materials contain asbestos and the regulated abatement procedure to be used is not detailed in the recommendations section of the existing Asbestos or Hazardous Building Assessment Materials report, HRCE will contact a Consultant to determine applicable asbestos abatement procedures and to develop a scope of work and performance specifications, as required.

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HRCE will employ an Abatement Contractor to perform the remedial work required (removal of damaged ACM) and a Consultant to perform inspection and air monitoring as soon as practicable upon receiving the report/notice of damage.

10.0 NOTIFICATION

10.1 Notification to Occupants

HRCE will inform the JOSHC of any planned sampling, assessment or abatement work that is to be conducted within the applicable HRCE building(s) to ensure that all aspects of committee involvement are complied with.

Tenants must be notified of ACM in their leased space and in common areas of the building that they have access to and may disturb the ACM.

HRCE will notify all new tenants of the presence of ACM in the space they are occupying. Notification is to be completed prior to occupancy via the tenant lease agreement.

Upon institution of this AMP, and upon completion of asbestos assessments in a recently assessed or recently purchased property, where tenants have not been notified via their lease agreement, HRCE will notify occupants of the presence of asbestos in the space they are occupying.

10.2 Notification of Contractors

Contractors that perform work which may disturb ACM within the Facility must be notified of the presence of asbestos (by providing the Asbestos or Hazardous Building Materials Assessment Report). Notification will be sent to these parties prior to project or maintenance work (e.g. janitorial, telephone, cable, etc.).

Contractors are to inform all sub-trades of the presence of all ACM or PACM identified in the work area and include this information in their respective contract agreement.

If suspect ACM not identified in the contract agreement is discovered during the course of the work, the Contractors are to stop all work which might disturb the suspect ACM and notify the appropriate HRCE personnel (i.e. Property Manager and/or Project Manager as applicable) or Constructor, as the case may be.

Prior to performing work, contractors must complete and return the Contractors Notification Package (Appendix B) and HRCE will maintain acknowledgement forms from these packages.

10.3 Notification of Maintenance Personnel

HRCE will inform their own staff that will perform janitorial work, maintenance work or project work of the presence of asbestos in the Facility in which they are working. This will be completed by providing access

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to the AMP and the most recent Asbestos Assessment or Hazardous Building Materials Assessment Report and training.

10.4 Notification of Project Managers, Architects and Engineers

HRCE will inform their project managers, architects and engineers of the presence of asbestos in the facility in which they are arranging for or planning work. This will be completed by providing access to the AMP, and the most recent Asbestos Assessment or Hazardous Building Materials Assessment Report.

10.5 Notification of Authorities Having Jurisdiction

Regulations in place at the time of this AMP development do not require notifications regarding asbestoscontaining materials, except for:

 A major release of a hazardous substance (per Section 63 of the Occupational Health and Safety Act).

11.0 TRAINING REQUIREMENTS

HRCE will employ a Consultant to ensure staff have received appropriate training.

HRCE employees which will not undertake asbestos abatement work or will not disturb asbestos may be provided training including the following:

- Health effects of asbestos exposure.
- Overview of the existence of applicable regulations and risk classification.
- Identification of common types of ACM (so as to not disturb them).
- Understanding a typical asbestos survey report.
- Their responsibilities under the policies in this AMP and Regulations.

HRCE employees will undertake asbestos abatement work shall receive training including the following:

- Health effects of asbestos exposure.
- Applicable regulations and risk classification.
- Identification of common types of ACM.
- Asbestos Work Procedures limited to Low Risk Operations.
- Understanding a typical asbestos survey report.
- Their responsibilities under the policies in this AMP and Regulations.

HRCE will maintain a record of training of their employees.

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HRCE requires all service providers, contractors, etc. to provide appropriate training to all workers who perform work in HRCE Facilities which will, or potentially may, disturb ACM.

12.0 RESPONSE TO DISTURBANCE OF ASBESTOS, PROCEDURES AND CONTACTS

HRCE staff and contractors may encounter fallen material that is suspected confirmed to contain asbestos or uncover a material that was previously unidentified and is suspected to contain asbestos. HRCE staff and contractors shall follow the protocol "Response to Disturbance of Asbestos" in Appendix C.

13.0 CLASSIFICATION OF ABATEMENT WORK

Refer to Appendix F for the classification of asbestos work.

14.0 INSPECTION AND AIR MONITORING OF ASBESTOS WORK

14.1 Visual Inspection

The primary method of ensuring compliance when conducting asbestos removal or abatement work is visual inspection of the site and work practices by a Competent Worker or Asbestos Consultant.

14.2 Air Monitoring During Asbestos Work

Per the "Asbestos in the Workplace: A Guide to the Removal of Friable Asbestos Containing Material" dated November 21, 2013:

- During the removal of friable asbestos-containing materials, where a Glove Bag is not used, and the air from the enclosure is exhausted inside the building, daily air sampling is required outside the enclosure.
- At the completion of removal of friable asbestos-containing materials, clearance air sampling must be performed prior to dismantling of the site isolation and engineering controls.

Air sampling above the regulatory requirements may be performed, as identified in the following sections.

Air monitoring and analysis during asbestos removal or abatement will be performed using Phase Contrast Microscopy (PCM) following the NIOSH 7400 method. PCM air samples must be submitted for analysis to a laboratory participating in a recognized quality control program such as the AIHA Asbestos Analysts Testing (AAT) Program or the Quality Control Program of the IRSST (the Institut de recherche Robert-Sauvé en santé et en sécurité du travail).

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The PCM method does not characterize the types of fibres present. In cases where elevated fibre concentrations are identified, or the actual asbestos concentration is required, Transmission Electron Microscopy following the NIOSH 7402 method may be used.

The acceptable limit for PCM samples is as follows:

- as low as reasonably achievable (ALARA) outside the work area, and/or 0.01 fibres/cubic centimetre (f/cc).
- 0.01 f/cc for clearance air sampling.

Where TEM analysis is performed, the acceptable limits would be 0.01 asbestos fibres/cubic centimeter.

14.3 Low Risk – Inspection and Air Monitoring

14.3.1 Inspection

The Project Manager, an assigned Competent Worker, or an Abatement Consultant, will inspect the work upon completion of work to ensure all ACM has been removed and the area adequately cleaned of dust and debris.

14.3.2 Air Monitoring

Air monitoring is not required; however, projects may be evaluated on a case by case basis, and air sampling performed where desired.

14.4 Moderate Risk and Glove Bag – Inspection and Air Monitoring

14.4.1 Inspection

An Abatement Consultant will perform daily inspections throughout the abatement, and inspect the work upon completion of work to ensure all ACM has been removed and the area adequate cleaned of visible dust and debris. Upon completion of inspection and air monitoring (if required) by the Abatement Consultant, the site isolation may be dismantled.

The Project Manager or an assigned Competent Worker may inspect for final cleanliness after the site isolation has been dismantled.

14.4.2 Air Monitoring

PCM air monitoring will be conducted daily and at completion of abatement. Air monitoring will be conducted in occupied areas adjacent to the Asbestos Work Area or Glove Bag Work Area during contaminated work.

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PCM air monitoring will be used for air clearance within the Asbestos Work Areas prior to re-occupancy. Where enclosures have been constructed to define the Asbestos Work Area, aggressive clearance air sampling will be performed.

14.5 High Risk – Inspection and Air Monitoring

14.5.1 Inspection

An Abatement Consultant will perform daily inspections throughout the abatement, and inspect the work upon completion of work to ensure all ACM has been removed and the area adequate cleaned of visible dust and debris. Upon completion of inspection and air monitoring by the Consultant, the site isolation may be dismantled.

The Project Manager or an assigned Competent Worker may inspect for final cleanliness after the site isolation has been dismantled.

14.5.2 Air Monitoring

PCM air monitoring will be conducted on a daily basis.

Air monitoring will be conducted at the perimeter of the Asbestos Work Area (in occupied areas adjacent to the Work Area) to ensure no leakage from the enclosure.

Aggressive clearance air monitoring must be performed within the Asbestos Work Areas. Where PCM samples fail to meet the 0.01 f/cc criteria:

- Contractors may be requested to reclean the Asbestos Work Areas, or;
- Transmission Electron Microscopy (TEM) may be used.

Once the clearance air testing is satisfactory:

- a. The site isolation and engineered controls may be removed.
- b. A copy of the air sample report is to be:
 - a. provided and maintained on site by the Contractor, when abatement work is part of a project;
 - b. provided to the Owner, and a copy is kept on file;
 - c. provided to the JOHSC or the OHS representative, if any, for the workplace and for the building

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15.0 RECORD KEEPING AND DOCUMENTATION RETENTION

HRCE will keep the following records:

- Asbestos and / or Hazardous Building Materials Assessment Reports.
- Reassessment Reports.
- Tenant Notification Letters and dates posted or transmitted.
- Contractor Notification Packages and Acknowledgement Forms.
- Asbestos Project Work Records.
- Consultant Asbestos Abatement Completion Reports (including Daily Inspection and Air Monitoring Reports).
- Bulk sample analytical results from any sampling.
- Emergency response project records.

16.0 CONSULTANT QUALIFICATIONS

Consultants employed by HRCE for asbestos work are to meet the following minimum requirements:

- Display competency in asbestos and hazardous materials consulting
- Maintain a health and safety management system that meets provincial standards.
- Maintain a Comprehensive General Liability Policy, with a minimum of \$5,000,000 in coverage.
- Maintain an Errors and Omissions Policy, with a minimum of \$5,000,000.
- Maintain an Automobile or Fleet Policy, and Non-Owned Automobile Policy with a minimum of \$2,000,000 in coverage.
- Maintain valid provincial worker's compensation coverage
- Accredited to analyze PCM air samples or use an accredited laboratory.

17.0 ASBESTOS ABATEMENT CONTRACTOR QUALIFICATIONS

Contractors employed by HRCE are to meet the following minimum requirements:

- Maintain a Comprehensive General Liability Policy, provided on an "occurrence" basis, for a minimum of \$5,000,000 in coverage.
- Maintain an Asbestos Liability or Contractors Pollution Liability Policy, provided on an "occurrence" basis, with a minimum of \$5,000,000 in coverage.

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- Maintain an Automobile or Fleet Policy, and Non-owned Automobile Policy with a minimum of \$2,000,000 in coverage.
- Maintain valid provincial worker's compensation coverage.
- All supervisors and workers performing abatement work are to be trained in the procedures being used, health effects or asbestos, applicable personal hygiene procedures, personal protection equipment used and respirator care.
- All workers are to be fit tested for respirators.
- Maintain a health and safety management system that meets provincial standards.

18.0 MAINTENANCE AND JANITORIAL WORK

HRCE personnel and contracted janitorial staff will not:

- Sweep/vacuum in areas of damaged ACM.
- Sweep/vacuum/remove ACM debris.
- Disturb ACM.
- Remove ACM.

HRCE will employ an Abatement Contractor to perform these tasks, where required.

Alternately, HRCE will employ the appropriately trained trade contractor if there is other work to be completed that will disturb ACM (e.g. installing electrical equipment through an asbestos-containing plaster wall).

19.0 MAINTENANCE OF THE AMP

This AMP is to be re-evaluated, and possibly revised, each time there is a substantial change to the any provincial regulation, or policy change. This AMP must be reviewed at least annually and updated as necessary.

20.0 ROLES AND RESPONSIBILITIES

This section defines the roles and responsibilities of HRCE personnel instituting this AMP and provide effective management of ACM at their facilities.

The AMP Facilitator has the primary responsibility to administer the AMP and ensure it is instituted and effective.

The following table summarizes the responsibilities of HRCE personnel:

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Reference No.	Responsibility/Task	AMP Section Reference	AMP Facilitator	Facility Manager	Project Team	Client Staff	Consultant
1	Maintenance of the AMP	19.0	X				
2	Employ a Consultant to prepare Asbestos Assessment Reports for any facility where one is not available/prepared	7.1	X	X			
3	Employ a Consultant to prepare Asbestos Assessment Reports in newly purchased facilities	7.1	X	X			
4	Employ a Consultant to reassess facilities where ACM has been confirmed	7.2	X	X			
5	Distribute Asbestos Assessment and Reassessment Reports	7.3	Х				
6	Upon receiving assessment and reassessment reports, employ a contractor to perform remedial abatement work to remove damaged ACM. Use applicable provincial procedures	9.0	X	X			
7	As required, prior to performing asbestos work, engage a Consultant to perform inspection and air monitoring	14.0	X	X	Х		
8	Ensure that an intrusive pre-construction assessment for ACM is performed prior to any renovation, alteration or demolition	8.0		Х	Х		Х
9	Conduct bulk sampling of suspect materials that have not been sampled or presume the materials to be an ACM	8.0		X	X		Х
10	Employ a Consultant (as applicable) to prepare a scope of work prior to large scale abatement as part of construction, renovation or demolition.	9.0		X	Х		
11	Provide existing occupants at the outset of this AMP, or occupants in newly purchased facilities, a letter notifying the lessee of ACM within their space, and instruction not to disturb the ACM.	10.1	X	X			

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Reference No.	Responsibility/Task	AMP Section Reference	AMP Facilitator	Facility Manager	Project Team	Client Staff	Consultant
12	Ensure all Project Managers, Architects, Engineers and others arranging for, or planning, work in the Facility are provided with the most current asbestos (re)assessment report.	10.4	X	X	X	X	
13	Provide contractors working in HRCE facilities the most current asbestos information and notification via the Contractor Information Package	10.2		X	X	X	
14	Employ a Consultant to train HRCE personnel	11.0	Х				
15	Response to an uncontrolled spill or disturbance of asbestos following emergency procedures in Appendix C	12.0	X	X	X	X	
16	Keep all records as required by this program (excepting contractor package acknowledgement)	15.0	Х				
17	Keep records of contractor package acknowledgement for each project (contractors to submit via email and keep record)	15.0	Х	Х	Х		
18	Ensure Consultants meet the required qualifications	16.0	X	X	X		
19	Ensure contractors meet the required qualifications	17.0		Х	Х		X
20	Ensure maintenance and janitorial work is performed so that it does not disturb ACM and unnecessary disturbance of ACM is avoided	18.0				X	
21	Report any unplanned disturbance to ACM or damage to ACM	12.0	Х	Х	Х	Х	

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GLOSSARY

Amended Water	Water with wetting agent added for purpose of reducing surface tension to allow thorough wetting of ACM.		
Asbestos-Containing Material(s) (ACM)	Material identified by an appropriate laboratory analytical method (e.g. EPA 600/R-93/116, NIOSH 9000, or NIOSH 9002) to contain at least 0.5% of any type of asbestos, and vermiculite that is identified to contain any amount of asbestos using EPA method 600/R-04/004 if other analytical methods do not identify the presence of asbestos.		
Asbestos	Any and all types of asbestos (generally considered as Actinolite; Amosite; Anthophyllite; Chrysotile; Crocidolite; Tremolite, and Libby Amphibole).		
Asbestos Work Area	Area where work is being performed which will or may disturb ACM including overspray and fallen material or settled dust that may contain asbestos.		
Competent Worker	In relation to specific work, means a worker who,		
	 qualified because of that person's knowledge, training and experience to do the assigned work in a manner that will ensure the health and safety of every person in the workplace; and 		
	 knowledgeable about the provisions of the Occupational Health and Safety Act and regulations that apply to the assigned work, and the potential or actual danger to health or safety associated with the assigned work. 		
Encapsulation	The application of a liquid sealant to asbestos-containing materials; the sealant may penetrate and harden the material (penetrants) or cover the surface with a protective coating (bridging sealants). Also called encasement. This is generally not advisable.		
Enclosure	Enclosure of ACM means the construction of solid enclosure (walls, ceiling, bulkhead etc.) around ACM, or		
	An Enclosure means the site isolation including hoarding walls, polyethylene sheeting and seals that isolates an Asbestos Work Area.		
Friable Material	Material that: when dry, can be crumbled, pulverized or powdered by hand pressure, or is crumbled, pulverized or powdered. Includes previously non-friable asbestos-containing material that has become damaged to the extent that it may be crumbled, pulverized, or reduced to powder by hand pressure.		
Glove Bag Removal	A method of removing friable insulation from a piping system using a prefabricated bag which isolates the section of insulation being removed.		
HEPA Filter	High Efficiency Particulate Aerosol filter that is at least 99.97 percent efficient in collecting a 0.3 micrometre aerosol.		
HEPA Filtered Negative Pressure Unit:	Portable air handling unit which extracts air directly from the Asbestos Work Area and discharges the air to the exterior of the building after passing through a HEPA filter.		

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JOHSC	Joint Occupational Health and Safety Committee.		
Phase Contrast Microscopy (PCM)	A method which uses an optical microscope to determine airborne fibres, normally in an occupational setting. Results are presented as a number of fibres per cubic centimetre (f/cc). The method of analysis is based on the US National Institute for Occupational Safety and Health (NIOSH) Manual of Analytical Methods, Method 7400, issue 2, Asbestos and Other Fibres by PCM (August 15, 1994).		
Transmission Electron Microscopy (TEM)	A method which uses an electron microscope to determine airborne asbestos fibres. Results are presented in fibres per cubic centimetre of air (f/cc). The method of analysis is The U.S. National Institute of Occupational Safety and Health (NIOSH) Manual of Analytical Methods, Method 7402, Issue 2: Asbestos by TEM (Aug 15, 1994).		
Low, Moderate and High Procedures	Work classifications and procedures defined under provincial health and safety regulations.		
US EPA	United States Environmental Protection Agency.		

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APPENDIX A

Letter of Notification to Tenants Regarding Asbestos in Premises

LETTER OF NOTIFICATION TO TENANTS REGARDING ASBESTOS IN PREMISES

The following wording should be utilized in communicating the presence of asbestos to a tenant or lessee.

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Appendix A

To Occupant

This letter is being provided as notification of the presence of asbestos within the building at [building name and/or address]. HRCE has recently had an asbestos assessment performed of the entire building and has established a program to manage all asbestos in a safe and prudent fashion.

Our Consultant inspected all areas of the building and made recommendations, where necessary, for removal or repair of asbestos. All such work [has been completed/will be completed shortly] with appropriate inspection and supervision. All asbestos remaining is subject to the Asbestos Management Program (AMP) as required by Provincial Regulations and our own due diligence. A copy of the assessment report and the AMP are available for review at the [Office].

The continuing presence of the remaining asbestos does not pose a risk of exposure to occupants as long as it remains under this management program. Staff have been given appropriate training and are aware of its presence.

If you have any concerns, please contact the AMP Facilitator at [phone number].

APPENDIX B

Contractor Notification and Acknowledgement Form

CONTRACTOR NOTIFICATION AND ACKNOWLEDGEMENT FORM

HRCE has identified the presence of various asbestos-containing materials (ACM) within [HRCE Facility name] located at [address]. An asbestos inventory report showing the locations and amounts of these materials is available for viewing from the AMP Facilitator.

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Appendix B

The disturbance of ACM is to be undertaken by Asbestos Abatement Contractors that maintain the appropriate insurance coverage and meet the requirements set out in the Asbestos Management Program (AMP).

The following activities may disturb asbestos materials. The AMP Facilitator must be notified of the following:

- Any removal, repair or disturbance of any ACM.
- Ceiling entry which may disturb sprayed-fireproofing or pipe insulation, or debris on the ceiling.
- Any other operation which may generate airborne asbestos from friable asbestos.
- The disturbance of any material excluded from the Facility's asbestos assessment report.
- Discovery of any material excluded from the survey.

Declaration by Contractor

The Contractor and their sub-contractors shall follow the work procedures as specified by HRCE's AMP and shall not disturb ACM without using proper procedures in accordance the provincial regulations and guidelines, and this AMP, including prior notification to the AMP Facilitator. All asbestos waste will be packaged, transported and disposed of in accordance with applicable regulations.

Notification of Asbestos Abatement

All Contractors who perform work at facilities where ACM is present must be notified of the presence of the ACM if their work may bring them into contact, or close proximity to, the ACM. This notification may include janitorial, security, telephone, computer cabling suppliers, mechanical maintenance contractors, etc.

All contractors who perform work, including telephone, computer cabling suppliers, electrical and mechanical contractors, etc., at HRCE facilities, where asbestos-containing spray-applied insulation is present above ceilings are to be notified that Moderate Risk Procedures may be required for any entry to, or work within the ceiling space, determined by condition of material, scope of work, and potential for disturbance of the material.



Asbestos Management Program

Halifax Regional Centre for Education
Contractor Notification and Acknowledgement Form

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Contractors are to:

- Notify municipal Landfill site as per provincial regulations.
- Inform all sub trades of the presence of ACM identified in the contract documents.
- If suspect ACM not identified in the contract documents are discovered during the course
 of the work, the Contractors are to stop all work which might disturb the suspect ACM.
 The contractor is to notify the Constructor (if applicable), HRCE and the JOHSC or OHS
 Representative for the workplace.

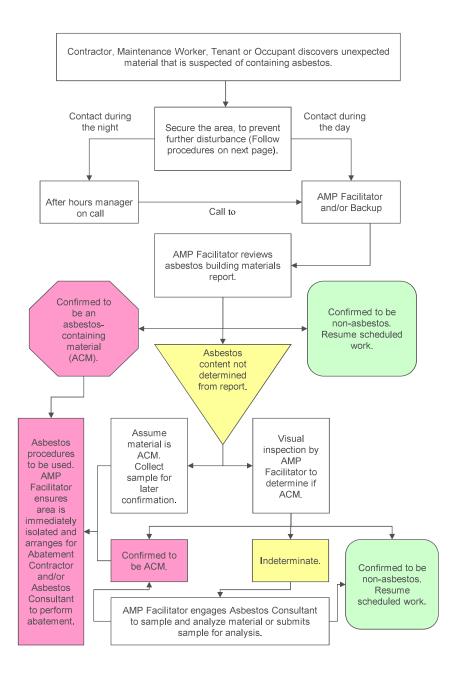
By signing below, the Contractor acknowledges they have received, read and understand the requirements of HRCE's AMP.

Building (Address):		
Project:		
Contractor:		
Name and Title:		
Signature:		
Date:		

APPENDIX C
Response to Disturbance of Asbestos

Pinchin File: 322126.000 Appendix C

EMERGENCY RESPONSES AND NOTIFICATION IN THE EVENT OF ASBESTOS-SUSPECT MATERIAL DISCOVERED DURING MAINTENANCE OR CONTRACTED WORK OR REPORTED BY OCCUPANT/TENANT



EMERGENCY REACTION IN THE EVENT OF SUSPECTED ASBESTOS SPILL

If asbestos-containing materials or suspect materials have been disturbed improperly, follow these directions:

Do not clean up, cover, move or contact asbestos-containing or suspect material. Cease
work in the area and do not resume work that risks disturbing the suspect material.
Workers are to leave the area and the HRCE AMP Facilitator is to be notified
immediately.

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Appendix C

- Isolate the area by locking doors if this can be done without blocking emergency or fire routes.
- If it is not possible to safely isolate the area, the AMP Facilitator will notify appropriate
 persons not to enter the area. If possible, post security to prevent unnecessary access.
- The AMP Facilitator will arrange to shut down ventilation systems to the affected area including supply, return and exhaust.
- The AMP Facilitator will determine if asbestos is contained in the debris. If material cannot be confirmed asbestos-free by records or appearance, follow procedures below.
- The AMP Facilitator will contact an Asbestos Consultant to sample the material or identify the material visually.
- If the material is confirmed or assumed to contain asbestos, the AMP Facilitator is to contract an Asbestos Abatement Contractor to clean-up contaminated area.
- At their option, the AMP Facilitator may decide to employ an Asbestos Consultant to
 perform air monitoring and consulting, prior to, during, and/or after clean-up to determine
 airborne fibre concentrations prior to, and during, the work and to ensure airborne fibre
 levels are within acceptable limits to re-occupy the space. The AMP Facilitator must
 notify the Joint Occupational Health and Safety Committee of the results of air monitoring
 or testing.
- Enable ventilation systems after air monitoring or clean up of ACM.

APPENDIX D
Asbestos Project Work Record

ASBESTOS PROJECT WORK RECORD

Building:			
	(E	Building Address or Name)	
Date:		(Today's Date)	
Draigat Number		(Today o Bato)	
Project Number:	(HRCE Project	ct Number or Purchase Order Numbe	r)
Duning at Trumps			
Project Type:			
☐ Emergency	☐ Planned Project		
Low Risk	☐ Moderate Risk	☐ Glove Bag	☐ High Risk
Area of Work:			
	(Roc	m Name, Number, Floor etc.)	
Description:	(Brief descripti	on of abatement, material, system, et	()
	(Brief descripti	on or abatement, material, system, er	o.,
Project Start Date:			
		(Mobilization date)	
Project End Date:	(A)	After dismantling/clean-up)	
Contractor:			
	(Co	ontracting firm or employee)	
Telephone:	(Cont	ractor or employee telephone)	
Canaviltant	(COIII	ractor or employee telephone)	
Consultant:	(Name	of consulting firm/contact if any)	
Telephone:			
		(Consultant telephone)	
Pre-Construction A	Assessment for asbestos-co	ontaining material (ACI	M) and other hazardous building
materials (e.g. lead	d, mercury, silica, and PCB	s) performed and repo	rt provided to Contractor?
☐ Yes ☐	No (Explain)		
Air Sampling during	g abatement?		
☐ Yes ☐	No		

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Appendix D

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Clearance Air Monitoring performed after abatement?					
Yes	□ No				
Air Monitoring re	esults to Joint Occupational Hea	Ith and Safety C	ommittee (if applicable)?		
Yes	□ No				
Asbestos Survey	y Updated to Reflect Changes in	n ACM Inventory	?		
Yes	☐ No, no changes to ACM inve	entory resulted			
☐ No, to forward	d copies to Consultant prior to r	next re-assessme	ent		
Asbestos waste	removed from site and dispose	d of?			
☐ Yes, ACM wa	aste documentation attached	☐ No,	ACM waste not generated		
☐ No, ACM was	ste remains on site for later disp	osal			
Append the following information relating to asbestos abatement to this work record, if applicable, and file Asbestos Work Record and attachments with Asbestos Management Program. Check where attached.					
Submittals include	ding Insurance	☐ Yes	□No		
Waste Documen	ntation	☐ Yes	□No		
Specifications, C	Change Orders, Drawings	☐ Yes	□No		
Consultant Inspe	ection Reports	☐ Yes	□No		
Air Monitoring R	esults	☐ Yes	□No		
Analytical Certific	cates	☐ Yes	□No		
Provincial Regul	atory reports	☐ Yes	□No		
Additional Corre	spondence	☐ Yes	□ No		

APPENDIX E
Reassessment of ACM

REASSESSMENT OF ACM

Building:

Upon completion of Reassessment, fill out the following form in its entirety and file with this facility's Asbestos Management Program and Assessment Report.

Use of this form is not necessary if an Asbestos Consultant has produced a detailed Reassessment Report which identified the damaged ACM identified in the building during the Reassessment (along with the associated locations, quantities, accessibility, and any required abatement recommendations).

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Appendix E

Dates of Reass	sessment:		
Name of perso	n completing reasse	ssment:	
•	rveyor:		
Others present	•		
Other process			
Summary of F	indings:		
(If no deteriorat	ion was noted, indic	ate here):	
(Specifically inc	dicate only areas req	uiring action in the table below).	
(Attached photo	ographs to this form	as required).	
Room or Location	Material	Comments Regarding Condition: Disturbed/Undisturbed (if other, explain)	Action Required



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Room or Location	Material	Comments Regarding Condition: Disturbed/Undisturbed (if other, explain)	Action Required

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APPENDIX F
Classifications of Abatement Work

CLASSIFICATIONS OF ABATEMENT WORK

Nova Scotia regulations/guidelines do not specifically classify asbestos work procedures, and only prescribe removal of friable materials including the use of Glove Bags.

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Appendix F

In the absence of defined work classifications, the following are the generally accepting work classifications:

Low Risk

- installation or removal of ACM ceiling tiles (less than 7.5 m²) without damage*.
- installation or removal of non-friable ACM, other than ceiling tiles, without damage*.
- damaging* non-friable ACM that is wetted and where the work is done using non-powered hand-held tools.

Moderate Risk

- removal of less than one square metre of drywall where ACM joint-filling compounds were used.
- enclosure of friable ACM.
- application of tape, a sealant or other covering to pipe or boiler insulation that is ACM.
- installing or removing ACM ceiling tiles that cover an area of 7.5 m² or more if the work is done without damaging the tiles.
- damaging non-friable ACM using non-powered hand-held tools if the material is not wetted.
- cleaning or removing filters used in air handling equipment in a building that has sprayed ACM insulation.
- glove bag removals of ACM insulation.
- Work that may expose a worker to asbestos and that is not classified as a Low Risk or High Risk operation, is also to be classified as a Moderate Risk operation.

High Risk

- removal or disturbance of friable ACM.
- the removal of all or part of a false ceiling to access a work area, if ACM is likely to be lying on the surface of the false ceiling.
- spray application of a sealant to friable ACM.

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- cleaning or removal of air-handling equipment, including rigid ducting but not including filters, in a building that has sprayed ACM insulation.
- repair, alteration or demolition of a kiln or furnace made, in part, of refractory materials that are ACM.
- Use of power tools not attached to dust-collecting devices with HEPA filters on nonfriable ACM.

^{*} damage includes breakage, cutting, abrading, grounding, sanding, and vibration.

APPENDIX G
Site Specific Report(s)

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Facility Specific Contacts

Contact Name	Title	Address	Phone Number	Email Address

