



538 NINTH STREET SUITE 240 • OAKLAND, CALIFORNIA 94607 • T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM • A CALIFORNIA CORPORATION

INCREMENT #2 - ADDENDUM 1

DATE: April 4, 2023

PROJECT: SMFCSD: LEAD Elementary Multi-Purpose Building – Increment 2

FROM: HKIT Architects

TO: Perspective Bidders.

Cc: San Mateo-Foster City School District, Robert Price

This Addendum forms a part of the Contract Documents and modifies the original Procurement Documents and previous Addenda as described below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

DSA File Number: 41- 26 **DSA Application Number:** 01-120062

Signature of Design Professional: _____

Printed Name: Jeffrey M. Evans

Professional License: *Check One* ☒ Architect ☐ Structural Engineer

License Number: 32430

Expiration Date: 10-31-23

INCREMENT #2 - ADDENDUM 1

Page 1 of 6

0 – GENERAL CLARIFICATIONS

1. The Mandatory bid walk sign-in sheets are provided for both 3/28/23 and 4/4/23.
2. The Engineer's Estimate is \$14,800,000.
3. The Geotechnical Engineer's Environmental Soil Screening Test Results is provided as For Reference Information.

1 - BID RFIS

1. **Q:** Do you have a sign in sheet from the mandatory prebid meeting for Lead Elementary School - New MPR - San Mateo Foster City School District (SMFCSD) that was on 3/28?
A: This will be provided as part of this Addendum #1.
2. **Q:** I would like to request a copy of the sign in sheet for 3/28's mandatory pre bid meeting?
A: This will be provided as part of this Addendum #1.
3. **Q:** Do you have an Engineer's Estimate for this project?
A: The Engineer's Estimate is \$14,800,000.
4. **Q:** Is there a PLA – Project labor Agreement?
A: No.
5. **Q:** Is there a rough project schedule or completion timeline you can share?
A: Construction will begin summer 2023 and be completed by summer 2024. Increment 1 is to be completed by August 11, 2023 and Increment 2 is to be completed by August 2, 2024.
6. **Q:** Is there an Engineer's Estimate available for this project?
A: The Engineer's Estimate is \$14,800,000.
7. **Q:** Please clarify what the walk off carpet (C-1) material is to be, Finish Legend shows Tarkett, color: Lapis, but Beyond The Door Prado I0317 is a Patcraft product.
A: The Manufacturer will be corrected to be Patcraft. The product and color are as indicated.
8. **Q:** Please confirm Builder's Risk is required to be carried by the GC. It is crossed out in the General Conditions section, but is included in the Special Conditions section.
A: Builder's Risk is required. The General Conditions will be updated to add section 13.1.6 back in.
9. **Q:** The Bid Form list Add Alternate #1, INC 2 Additional Paving Scope. However, the Civil Drawings refer to Alternate #1 (note 6) and Alternate #2 (note 7). Please confirm if there should be an Alternate #2 added to the bid form, or Alt #1 and Alt #2 should be combined into Alternate #1. Additionally, on 2.L6.02, there is a note that states "Bid Alternate: (3) ACE OGL". Please confirm this is part of Alternate #1 as well.
A: Alternate #1 includes the additional paving scope as defined by the drawings, including the listed Alternate #1 and #2 on the Civil Drawings, and the Bid Alternate indicated on the Landscape Drawings. This alternate will be further addressed in Addendum #2.

INCREMENT #2 - ADDENDUM 1

Page 2 of 6

10. **Q:** Please confirm the District has already fulfilled the DVBE advertisement requirement. Also, the ITBs state that DVBE Certification Participation Forms are attached. I could not find these attached. Please provide.

A: The DVBE form is added as part of this addendum. The GC is responsible to run the advertisement per the document.

11. **Q:** General note on 2.G3.01 #1 states that new Buildings shall be provided with emergency responder radio coverage...However, there are no specifications, details or drawings outlining this scope. Please provide more details, specifications, etc., or confirm ERRCS should not be part of base bid.

A: The ERRC will be further defined by and permitted by the Local Fire Authority. The District will coordinate and apply for this permit. At this time, there are no specific details or specifications for the ERRC.

12. **Q:** In review of the Increment 1 Project Manual, the table of contents list "Appendix A - Geotechnical and Geological Hazards Investigation Multi-Purpose Room Building LEAD Elementary," however this is not included within the Project Manual. Please provide the Appendix A - Geotechnical and Geological Hazards Investigation Multi- Purpose Room Building LEAD Elementary.

A: The Geotechnical and Geohazard Investigation report, subsequent Geotechnical letters and reviews, and the topographic and utility survey have been provided along with the construction documents in a separate folder indicated as "for reference information."

2 - SUBSTITUTION REQUESTS

1. N/A

3 - CHANGES TO SPECIFICATIONS

1. **Section: 00 0 06 Table of Contents**

Attachments: None

Description of Changes:

- a. **Division 00 General Requirements: ADD** section 00 45 55 Disabled Veteran Business Enterprise Participation Certification.
- b. **Division 01 General Requirements: ADD** section 01 75 19 Construction Waste Management and Disposal.
- c. These sections are also added in Increment #1 Table of Contents.

2. **Section: 00 45 55 Disabled Veteran Business Enterprise Participation Certification**

Attachments: 00 45 55 Disabled Veteran Business Enterprise Participation Certification

Description of Changes:

- a. **ADD** this Section in its entirety.

INCREMENT #2 - ADDENDUM 1

- b. This Section is also added for Increment #1
- 3. **Section: 00 70 00 General Conditions**
Attachments: 00 70 00 General Conditions
Description of Changes:
 - a. **ADD** Paragraph 13.1.6 Builder’s Risk Insurance: Builder’s Risk “All Risk” Insurance, and all subparagraphs.
 - b. This paragraph and all subparagraphs are also added for Increment #1
- 4. **Section: 01 25 10 Product Options and Substitutions**
Attachments: San Mateo-Foster City School District Substitution Request Form
Description of Changes:
 - a. **ADD** the district’s substitution form to the end of the section.
 - b. This form is also added for Increment #1
- 5. **Section: 01 75 19 Construction Waste Management and Disposal**
Attachments: 01 75 19 Construction Waste Management and Disposal
Description of Changes:
 - a. **ADD** this Section in its entirety.
 - b. This Section is also added for Increment #1
- 6. **Section: 05 50 13 Architectural Metal Fabrications**
Attachments: 05 50 13 Architectural Metal Fabrications
Description of Changes:
 - a. Paragraph 2.10 Mechanical Roof Screens: **REVISE** as follows:
 - 1. **REVISE** subparagraph A Basis-of-Design Product as follows: **Refer to Section 07 42 13 Metal Composite Wall Panel System.**
 - 2. **DELETE** subparagraphs B, C, D, E, and F.
- 7. **Section: 32 13 13 Site Concrete**
Attachments: 32 13 13 Site Concrete
Description of Changes:
 - a. **Add** Testing paragraph as subsection 1.3.C Testing in subsection 1.3 Quality Assurance after subsection 1.3.B. Every subsequent paragraph after 1.3.C Testing will be labeled with the next sequential alphabet:

INCREMENT #2 - ADDENDUM 1

- C. Testing: Performed by a qualified independent testing laboratory selected and paid for by the Owner. The cost of re-testing rejected work shall be deducted from the amount due the Contractor for work under this section.*
- b. **Add** Batch Testing paragraph as subsection 1.3.G Batch Testing in subsection 1.3 Quality Assurance after subsection 1.3.F. Every subsequent paragraph after 1.3.G Batch Testing will be labeled with the next sequential alphabet.

C. Batch Plant Testing

- 1. Continuous batch plant inspection may be waived by the registered design professional, subject to approval by the enforcement agency under the following condition:*
 - a. The concrete plant complies fully with the requirements of ASTM C94, Sections 9 and 10, and has a current certificate from the National Ready Mixed Concrete Association or another agency acceptable to the enforcement agency. The certification shall indicate that the plant has automatic batching and recording capabilities.*
 - 2. When Continuous batch plant inspection is waived, the following requirements shall apply:*
 - a. An approved agency shall check the first batch at the start of the day to verify materials and proportions conform to the approved mix design.*
 - b. A licensed weighmaster shall positively identify quantity of materials and certify each load by a batch ticket.*
 - c. Batch tickets, including material quantities and weights shall accompany the load, shall be transmitted to the inspector of record by the truck driver with load identified thereon. The load shall not be placed without a batch ticket identifying the mix. The inspector of record shall keep a daily record of placements, identifying each truck, its load, and time of receipt at the jobsite, and approximate location of deposit in the structure and shall maintain a copy of the daily record as required by the enforcement agency.*
- d. 2.3. Reinforcement Steel A.2: Add dimension text “6” x 6”, w 1.4 x w 1.4” in subsection.
- e. 2.4.F. Waterproofing admixture: Remove the text “C-1000/C-2000” in subsection, add text “C-500” in place of removed text.
- f. This section is also updated as indicated for Increment #1.

4 - CHANGES TO DRAWINGS

1. **Sheet: 2.A10.30 – Interior and Exterior Finish Schedules**

Attachments: 2.A10.30

Description of Changes:

INCREMENT #2 - ADDENDUM 1

- a. Interior Finish Legend: **REVISE** C-1 Manufacturer to be “**Patcraft**”.

2. **Sheet: 2.P0.02 – Plumbing Schedule**

Attachments: 2.P0.02

Description of Changes:

- a. Domestic Water Heater: **REVISE** model number and electrical requirements of WH-1.
-

END OF INCREMENT #2 - ADDENDUM 1

INCREMENT #2 - ADDENDUM 1

Page 6 of 6

DOCUMENT 00 45 55

DISABLED VETERAN BUSINESS ENTERPRISE PARTICIPATION CERTIFICATION

Section 17076.11 of the Education Code requires school districts using funds allocated pursuant to the State of California School Facility Program ("Program") for the construction and/or modernization of school buildings to have a participation goal for disabled veteran business enterprises ("DVBE(s)") of at least three percent (3%), per year, of the overall dollar amount expended each year by the school district on projects that receive state funding.

Section 2001 of the Public Contract Code requires school districts to require each Bidder to provide in its bid certain information about its Subcontractors. In addition to completing this certification as indicated herein, each Bidder must provide the information related to DVBEs as required in the Designated Subcontractors List.

- 1. Disabled Veteran Business Enterprise.** A DVBE is a business enterprise certified by the California Office of Small Business as a DVBE.
- 2. DVBE Participation Policy.** The District is committed to achieving this DVBE participation goal. The District encourages Contractor to ensure maximum opportunities for the participation of DVBEs in the Work of the Contract.
- 3. DVBE Participation Goal.** The three percent (3%) participation goal is not a quota, set-aside or rigid proportion.
- 4. Certification of Participation.** At the time of execution of the Contract, the Contractor will provide a statement to the District of anticipated participation of DVBEs in the contract.
- 5. Submission of Report.** During performance of the Contract, Contractor shall monitor the Work of the Contract, award of subcontracts and contracts for materials, equipment and supplies for the purpose of determining DVBE participation in the Work of the Contract.
 - a) Contractor shall report on a monthly basis all DVBEs utilized in the performance of the Work, the type or classification of the Work performed by each DVBE, and the dollar value of the Work performed by each DVBE.
 - b) Upon completion of the Work of the Contract, Contractor shall submit a report to the District in the form attached hereto identifying all DVBEs utilized in the performance of the Work, the type or classification of the Work performed by each DVBE, and the dollar value of the Work performed by each DVBE.
 - i) The submission to the District of this report is a condition precedent to the District's obligation to make payment of the Final Payment under the Contract Documents. The submission of this report shall be in addition to, and not in lieu of, any other conditions precedent set forth in the Contract Documents for the District's obligation to make payment of the Final Payment.
 - ii) The District reserves the right to request additional information or documentation from the Contractor evidencing efforts to comply with the three percent (3%) DVBE participation goal.

DVBE PARTICIPATION REPORT

Contractor Name: _____ Date: _____

LEAD ELEMENTARY SCHOOL NEW MPR BUILDING – PROJECT #20-201

DVBE Firm Name	Trade / Portion of Work	Subcontract/ Contract Value
Add more sheets as needed to include all information for each DVBE		

Does the cumulative dollar value of these DVBE contracts meet or exceed the participation goal of three percent (3%) of the final Contract Price, as adjusted by all change orders?

YES _____ NO _____

If your response is "NO," please attach to this report a detailed description of the reasons your firm did not achieve the participation goal of three percent (3%) of the final Contract Price.

I certify and declare under penalty of perjury under the laws of the State of California that all the foregoing information is complete, true, and correct.

Date: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

DOCUMENT 00 70 00

TABLE OF CONTENTS

GENERAL CONDITIONS

1.	CONTRACT TERMS AND DEFINITIONS	1
1.1.	Definitions	1
1.2.	Laws Concerning the Contract	5
1.3.	No Oral Agreements	5
1.4.	No Assignment	5
1.5.	Confidentiality	5
1.6.	Notice and Service Thereof	5
1.7.	No Waiver	5
1.8.	Substitutions for Specified Items	5
1.9.	Materials and Work	7
2.	DISTRICT	8
3.	ARCHITECT	9
4.	CONSTRUCTION MANAGER	9
5.	INSPECTOR, INSPECTIONS AND TESTS	9
5.1.	Project Inspector	9
5.2.	Tests and Inspections	10
5.3.	Costs for After Hours and/or Off Site Inspections	11
6.	CONTRACTOR	11
6.1.	Status of Contractor	11
6.2.	Contractor's Supervision	11
6.3.	Duty to Provide Fit Workers	12
6.4.	Personnel	13
6.5.	Prohibition on Harassment	14
6.6.	Conferences and Meetings.	14
6.7.	Purchase of Materials and Equipment	15
6.8.	Documents on Work	16
6.9.	Preservation of Records	17
6.10.	Integration of Work	17
6.11.	Obtaining of Permits and Licenses	18
6.12.	Work to Comply with Applicable Laws and Regulations	18
6.13.	Safety/Protection of Persons and Property	19
6.14.	Working Evenings and Weekends	22
6.15.	Noise and Dust Control	22
6.16.	Cleaning Up	23
7.	SUBCONTRACTORS	24
8.	OTHER CONTRACTS/CONTRACTORS	25
9.	DRAWINGS AND SPECIFICATIONS	25
9.8.	Ownership of Drawings	26
10.	CONTRACTOR'S SUBMITTALS AND SCHEDULES	26
10.1.	Schedules, Safety Plan and Complete Subcontractor List	26
10.2.	Monthly Progress Schedule(s)	29
10.3.	Material Safety Data Sheets (MSDS)	29
10.4.	Logistic Plan	30
10.5.	Information Included in Submittals.	30
10.6.	Verification of Submittal Information	30
10.7.	Contractor Responsibility for Deviations.	30

10.8.	No Performance of Work Without Architect Review.	30
10.9.	District and Architect Review of Submittals.....	31
10.10.	Deferred Approval Items.	31
10.11.	Contractor Responsibility for Deviations	31
11.	SITE ACCESS, CONDITIONS AND REQUIREMENTS.....	31
11.1.	Site Investigation	31
11.2.	Soils Investigation Report	31
11.3.	Access to Work	32
11.4.	Layout and Field Engineering.....	32
11.5.	Utilities for Construction	32
11.6.	Sanitary Facilities.....	32
11.7.	Surveys.....	33
11.8.	Regional Notification Center.....	33
11.9.	Existing Utility Lines.....	33
11.10.	Notification	33
11.11.	Hazardous Materials.....	34
11.12.	No Signs.....	34
12.	TRENCHES.....	34
12.1.	Trenches Greater Than Five Feet	34
12.2.	Excavation Safety	34
12.3.	No Tort Liability of District.....	34
12.4.	No Excavation without Permits	34
12.5.	Discovery of Hazardous Waste, Unusual Conditions and/or Unforeseen Conditions	34
13.	INSURANCE AND BONDS	35
13.1.	Insurance.....	35
13.2.	Contract Security – Bonds.....	38
14.	WARRANTY/GUARANTEE/INDEMNITY	38
14.1.	Warranty/Guarantee.....	38
14.2.	Indemnity	39
15.	TIME	40
15.1.	Notice to Proceed.....	40
15.2.	Hours of Work	40
15.3.	Progress and Completion.....	40
15.4.	Schedule	41
15.5.	Expeditious Completion.....	41
16.	EXTENSIONS OF TIME – LIQUIDATED DAMAGES	41
16.1.	Contractor’s Notice of Delay.....	41
16.2.	Excusable and Compensable Delay(s)	42
16.3.	Excusable and Non-Compensable Delay(s)	43
16.4.	Unexcused Delay(s) – Liquidated Damages.....	44
17.	CHANGES IN THE WORK.....	45
17.1.	No Changes Without Authorization	45
17.2.	Architect Authority.....	46
17.3.	Change Orders.....	46
17.4.	Unilateral Change Orders	47
17.5.	Force Account Directives	47
17.6.	Price Request.....	48
17.7.	Proposed Change Order.....	48
17.8.	Format for Proposed Change Order	50
17.9.	Change Order Certification	55
17.10.	Determination of Change Order Cost.....	55
17.11.	Deductive Change Orders	56

17.12.	Discounts, Rebates and Refunds.....	56
17.13.	Accounting Records	56
17.14.	Notice Required.....	56
17.15.	Applicability to Subcontractors.....	56
17.16.	Alteration to Change Order Language.....	56
17.17.	Failure of Contractor to Execute Change Order.....	56
18.	REQUEST FOR INFORMATION	57
19.	PAYMENTS.....	57
19.1.	Contract Price	57
19.2.	Applications for Progress Payments	58
19.3.	Progress Payments	60
19.4.	Decisions to Withhold Payment.....	62
19.5.	Subcontractor Payments	63
20.	COMPLETION OF THE WORK.....	64
20.1.	Completion.....	64
20.2.	Closeout Procedures.....	64
20.3.	Final Inspection	65
20.4.	Costs of Multiple Inspections.....	66
20.5.	Partial Occupancy or Use Prior to Completion	66
21.	FINAL PAYMENT AND RETENTION	67
21.1.	Final Payment.....	67
21.2.	Prerequisites for Final Payment.....	67
21.3.	Retention	68
21.4.	Substitution of Securities.....	68
21.5.	Claims Asserted After Final Payment	68
22.	UNCOVERING WORK, CORRECTION OF WORK AND RIGHT TO TAKEOVER WORK	68
22.1.	Uncovering of Work.....	68
22.2.	Rejection of Work.....	68
22.3.	Nonconforming Work	69
22.4.	Correction of Work	69
22.5.	District's Right to Takeover Work	69
23.	TERMINATION AND SUSPENSION	70
23.1.	District's Right to Terminate Contractor for Cause.....	70
23.2.	Emergency Termination of Public Contracts Act of 1949.....	72
23.3.	Termination of Contractor for Convenience	72
23.4.	Suspension of Work.....	73
23.5.	Scope Reduction.....	73
24.	CLAIMS RESOLUTION	73
24.1.	Exclusive Remedy.	73
24.2.	Performance during Claim Resolution Process.....	74
24.3.	Waiver.....	74
24.4.	Intention.	74
24.5.	Other Provisions.	74
24.6.	Claim Presentation	74
24.7.	Documentation of Resolution.....	79
24.8.	Claim Resolution Process – Non-Applicability.	79
25.	LABOR, WAGE & HOUR, APPRENTICE AND RELATED PROVISIONS	79
25.1.	Contractor & Subcontractor Registration	79
25.2.	Wage Rates, Travel and Subsistence	80
25.3.	Hours of Work	81
25.4.	Payroll Records.....	82
25.5.	Apprentices	83

25.6.	Non-Discrimination	84
25.7.	Labor First Aid	84
26.	MISCELLANEOUS.....	85
26.1.	Assignment of Antitrust Actions	85
26.2.	Excise Taxes.....	85
26.3.	Taxes	85
26.4.	Shipments	86
26.5.	Compliance with Government Reporting Requirements.....	86

1. CONTRACT TERMS AND DEFINITIONS

1.1. Definitions

Wherever used in the Contract Documents, the following terms shall have the meanings indicated, which shall be applicable to both the singular and plural thereof:

1.1.1. Adverse Weather: Weather that satisfies all of the following conditions: (1) unusually severe precipitation, sleet, snow, hail, heat, or cold conditions in excess of the norm for the location and time of year it occurred, (2) unanticipated, and (3) occurring at the Project Site.

1.1.2. Allowance(s): Amount(s) stated in the Agreement for specific scopes of work for which Contractor may bill its time, materials, and other items in the identical structure as a Change Order.

1.1.3. Approval, Approved, and/or Accepted: Refer to written authorization, unless stated otherwise.

1.1.4. Architect: The individual, partnership, corporation, joint venture, or any combination thereof, named as Architect that has the rights and authority assigned to the Architect in the Contract Documents. The term Architect means the District's Architect on this Project or the Architect's authorized representative.

1.1.5. As-Built Drawings: A reproducible full-size sets of drawings to be prepared on a monthly basis, and upon Project Completion, pursuant to the Contract Documents, that reflect changes made during the performance of the Work, recording differences between the original design of the Work and the Work as constructed since the preceding monthly submittal.

1.1.6. Bidder: A contractor who intends to provide a bid to the District to perform the Work of the Contract.

1.1.7. Change Order: A written order to the Contractor authorizing an addition to, deletion from, or revision in the Work, and/or authorizing an adjustment in the Contract Price or Contract Time. If a Change Order is required to be approved by DSA, the District may call it a Construction Change Document.

1.1.8. Completion: When the entire Work shall have been completed, including all punch list items, as further detailed in the "Completion of the Project" Section herein. Final DSA approval of the Project is not required for Completion.

1.1.9. Construction Manager: The individual, partnership, corporation, joint venture, or any combination thereof, or its authorized representative, named as such by the District. If no Construction Manager is used on the Project, then all references in the Contract Documents to Construction Manager shall be read to refer to District.

1.1.10. Construction Schedule: The progress schedule of construction of the Project as provided by Contractor and approved by District.

1.1.11. Contract, Contract Documents: The Contract consists exclusively of the documents evidencing the agreement of the District and Contractor, identified as the Contract Documents. The Contract Documents consist of the following documents:

1.1.11.1. Notice to Bidders / Invitation to Bid

1.1.11.2. Instructions to Bidders

- 1.1.11.3.** Bid Form
- 1.1.11.4.** Bid Bond
- 1.1.11.5.** Designated Subcontractors List
- 1.1.11.6.** Noncollusion Declaration
- 1.1.11.7.** Iran Contracting Act Certification
- 1.1.11.8.** Certifications to be Completed by Contractor
- 1.1.11.9.** Disabled Veteran’s Business Enterprise Participation Certification
- 1.1.11.10.** Criminal Background Investigation/Fingerprinting Certification
- 1.1.11.11.** Notice of Award
- 1.1.11.12.** Agreement
- 1.1.11.13.** Escrow of Bid Documentation (if applicable)
- 1.1.11.14.** Escrow Agreement for Security Deposits in Lieu of Retention
- 1.1.11.15.** Storm Water Pollution Prevention Plan (if applicable)
- 1.1.11.16.** Notice to Proceed
- 1.1.11.17.** Performance Bond
- 1.1.11.18.** Payment Bond (Contractor’s Labor and Material Bond)
- 1.1.11.19.** District Contract Forms (if applicable)
- 1.1.11.20.** District Closeout Forms (if applicable)
- 1.1.11.21.** Warranty and Guarantee Form
- 1.1.11.22.** General Conditions
- 1.1.11.23.** Special Conditions
- 1.1.11.24.** Project Plans, Specifications, Technical Specifications, and Drawings
- 1.1.11.25.** Addenda to any of the above documents
- 1.1.11.26.** Schedules if approved in writing by the District
- 1.1.11.27.** Change Orders or written modifications to the above documents if approved in writing by the District

1.1.12. Contract Price: The total monies payable to the Contractor under the terms and conditions of the Contract Documents.

1.1.13. Contract Time: The time period stated in the Agreement for the Completion of the Work.

1.1.14. Contractor: The licensed person, entity, or entities identified in the Agreement as contracting to perform the Work.

1.1.15. Daily Job Report(s): Daily Project reports prepared by the Contractor's employee(s) who are present on Site, which shall include the information required herein.

1.1.16. Day(s): Unless otherwise designated, day(s) means calendar day(s). "**Business Day(s)**" shall mean days except Saturday, Sunday, a day that is federally recognized holiday, or a day that is a California-recognized holiday.

1.1.17. Defective or Nonconforming Work. Defective or nonconforming Work is any Work which is unsatisfactory, faulty or deficient by: (a) not conforming to the requirements of the Contract Documents; (b) not conforming to the standards of workmanship of the applicable trade; (c) not being in compliance with the requirements of any inspection, reference, standard, test, or approval required by the Contract Documents; or (d) damage to Work occurring prior to Completion.

1.1.18. District: The public agency or the school district for which the Work is performed.

1.1.19. Drawings: (or "Plans") The graphic and pictorial portions of the Contract Documents showing the design, location, scope and dimensions of the Work, generally including plans, elevations, sections, details, schedules, sequence of operation, and diagrams.

1.1.20. DSA: Division of the State Architect.

1.1.21. Force Account Directive: A process that may be used when the District and the Contractor cannot agree on a price for a specific scope of work or before Contractor prepares a price for the scope of work, Contractor performs on a time and materials basis.

1.1.22. Premises: The real property owned by the District on which the Project Site is located.

1.1.23. Product(s): New material, machinery, components, equipment, fixtures and systems forming the Work, including existing materials or components required and approved by the District for reuse.

1.1.24. Product Data: Illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by Contractor to illustrate a material, product, or system for a scope of the Work.

1.1.25. Project: The planned undertaking as provided for in the Contract Documents.

1.1.26. Project Inspector: (or "Inspector") Individual(s) retained by the District in accordance with title 24 of the California Code of Regulations to monitor and inspect the Project.

1.1.27. Program Manager: The individual, partnership, corporation, joint venture, or any combination thereof, or its authorized representative, named as such by the District. If no Program Manager is designated for the Project, then all references to Project Manager shall refer to District.

1.1.28. Proposed Change Order: A written request prepared by the Contractor requesting that the District and the Architect issue a Change Order based upon a proposed change to the Work.

1.1.29. Provide: Shall include "provide complete in place," that is, "furnish and install," and "provide complete and functioning as intended in place" unless specifically stated otherwise.

1.1.30. Request for Information: (or "RFI") A written request prepared by the Contractor requesting that the Architect provide additional information necessary to clarify or amplify an item in the Contract

Documents that the Contractor believes is not clearly shown or called for in the Drawings or Specifications or other portions of the Contract Documents, or to address issues that have arisen under field conditions.

1.1.31. Request for Substitution: A request by Contractor to substitute an equal or superior material, product, thing, or service for a specific material, product, thing, or service that has been designated in the Contract Documents by a specific brand or trade name.

1.1.32. Safety Orders: Written and/or verbal orders for construction issued by the California Division of Industrial Safety ("CalOSHA") or by the United States Occupational Safety and Health Administration ("OSHA").

1.1.33. Safety Plan: Contractor's safety plan specifically adapted for the Project. Contractor's Safety Plan shall comply with all provisions regarding Project safety, including all applicable provisions in these General Conditions.

1.1.34. Samples: Physical examples that illustrate materials, products, equipment, finishes, colors, or workmanship and that, when approved in accordance with the Contract Documents, establish standards by which portions of the Work will be judged.

1.1.35. Shop Drawings: All drawings, prints, diagrams, illustrations, brochures, schedules, and other data that are prepared by the Contractor, a subcontractor, manufacturer, supplier, or distributor, that illustrate how specific portions of the Work shall be fabricated or installed.

1.1.36. Site: The Project site as shown on the Drawings.

1.1.37. Specifications: That portion of the Contract Documents, Division 1 through Division 17, and all technical sections, and addenda to all of these, if any, consisting of written descriptions and requirements of a technical nature of materials, equipment, construction methods and systems, standards, and workmanship.

1.1.38. Subcontractor: A contractor and/or supplier who is under contract with the Contractor or with any other subcontractor, regardless of tier, to perform a portion of the Work.

1.1.39. Submittal Schedule: The schedule of submittals as provided by Contractor and approved by District.

1.1.40. Surety: The person, firm, or corporation that executes as surety the Contractor's Performance Bond and Payment Bond and must be a California admitted surety insurer as defined in the Code of Civil Procedure section 995.120.

1.1.41. SWPPP: The District's Storm Water Pollution Prevention Plan.

1.1.42. Terms. The term "provide" means "provide complete in place" or to "furnish and install" such item. Unless otherwise provided in the Contract Documents, the terms "approved;" "directed;" "satisfactory;" "accepted;" "acceptable;" "proper;" "required;" "necessary" and "equal" shall mean as approved, directed, satisfactory, accepted, acceptable, proper, required, necessary and equal, in the opinion of the District. The term "typical" as used in the Drawings shall require the installation or furnishing of such item(s) of the Work designated as "typical" in all other areas similarly marked as "typical"; Work in such other areas shall conform to that shown as "typical" or as reasonably inferable therefrom.

1.1.43. Unilateral Change Order: A written order prepared and issued by the District, the Construction Manager, and/or the Architect and signed by the District and the Architect, directing a change in the Work. **A Unilateral Change Order is NOT a Construction Change Document (which is defined above as a**

Change Order that DSA must approve).

1.1.44. Work: All labor, materials, equipment, components, appliances, supervision, coordination, and services required by, or reasonably inferred from, the Contract Documents, that are necessary for the construction and Completion of the Project.

1.2. Laws Concerning the Contract

Contract is subject to all provisions of the Constitution and laws of California and the United States, governing, controlling, or affecting District, or the property, funds, operations, or powers of District, and such provisions are by this reference made a part hereof. Any provision required by law to be included in this Contract shall be deemed to be inserted.

1.3. No Oral Agreements

No oral agreement or conversation with any officer, agent, or employee of District, either before or after execution of Contract, shall affect or modify any of the terms or obligations contained in the Contract Documents.

1.4. No Assignment

Contractor shall not assign the Contract or any part thereof including, without limitation, any services or money to become due without the prior written consent of the District. Assignment without District's prior written consent shall be null and void. Any assignment of money due or to be come due under the Contract shall be subject to a prior lien for services rendered or material supplied for Work performed in favor of all persons, firms, or corporations rendering services or supplying material to the extent that claims are filed pursuant to the Civil Code, Code of Civil Procedure, Government Code, Labor Code, and/or Public Contract Code, and shall also be subject to deductions for Liquidated Damages or withholding of payments as determined by District in accordance with the Contract. Contractor shall not assign or transfer in any manner to a Subcontractor or supplier the right to prosecute or maintain an action against the District.

1.5. Confidentiality

Contractor shall maintain the confidentiality of all information, documents, programs, procedures and all other items that Contractor encounters while performing the Work. This requirement shall be ongoing and shall survive the expiration or termination of the Contract and specifically includes, without limitation, all student, parent, and employee disciplinary information and health information.

1.6. Notice and Service Thereof

1.6.1. Any notice required by the Contract shall be in writing, dated and signed by the party giving notice or by a duly authorized representative of that party.

1.7. No Waiver

The failure of District in any one or more instances to insist upon strict performance of any term of the Contract or to exercise any District option shall not be construed as a waiver or relinquishment of the right to assert or rely upon any such term or option on a future occasion. No action or failure to act by the District, Architect, or Construction Manager shall constitute a waiver of any right or duty afforded the District under the Contract, nor shall any action or failure to act constitute an approval of or acquiescence in any breach hereunder, except as may be specifically agreed in writing.

1.8. Substitutions for Specified Items

1.8.1. Requests for substitutions prior to award of the Contract shall be submitted within the time period indicated in the Instructions to Bidders.

1.8.2. Requests for substitutions after award of the Contract shall be submitted within **THIRTY-FIVE (35)** days of the date of the Notice of Award. This time period may be extended by the District only, in its sole discretion.

1.8.3. Whenever in the Specifications any materials, process, or article is indicated or specified by grade, patent, or proprietary name, or by name of manufacturer, that Specification shall be deemed to be followed by the words "or equal." Contractor may, unless otherwise stated, offer any material, process, or article that shall be substantially equal or better in every respect to that so indicated or specified.

1.8.3.1. If the material, process, or article offered by Contractor is not, in the opinion of the District, substantially equal or better in every respect to that specified, then Contractor shall furnish the material, process, or article specified in the Specifications without any additional compensation or change order.

1.8.3.2. This provision shall not be applicable with respect to any material, product, thing or service for which District made findings and gave notice in accordance with Public Contract Code section 3400(b); therefore, Contractor shall not be entitled to request a substitution with respect to those materials, products or services.

1.8.4. A request for a substitution shall be in writing and shall include:

1.8.4.1. All variations of the proposed substitute from the material specified including, but not limited to, principles of operation, materials, or construction finish, thickness or gauge of materials, dimensions, weight, and tolerances;

1.8.4.2. Available maintenance, repair or replacement services;

1.8.4.3. Increases or decreases in operating, maintenance, repair, replacement, and spare parts costs;

1.8.4.4. Whether or not acceptance of the substitute will require other changes in the Work (or in work performed by the District or others under Contract with the District); and

1.8.4.5. The time impact on any part of the Work resulting directly or indirectly from acceptance of the proposed substitute.

1.8.5. No substitutions shall be made until approved, in writing, by the District. The burden of proof as to equality of any material, process, or article shall rest with Contractor. The Contractor warrants that if substitutes are approved:

1.8.5.1. The proposed substitute is equal or superior in all respects to that specified, and that such proposed substitute is suitable and fit for the intended purpose and will perform adequately the function and achieve the results called for by the general design and the Contract Documents;

1.8.5.2. The Contractor provides the same warranties and guarantees for the substitute that would be provided for that specified;

1.8.5.3. The Contractor shall be fully responsible for the installation of the substitute and any changes in the Work required, either directly or indirectly, because of the acceptance of such substitute, with no increase in Contract Price or Contract Time. Incidental changes or extra component parts required to accommodate the substitute will be made by the Contractor without a

change in the Contract Price or Contract Time;

1.8.5.4. The Contractor shall be responsible for any re-design costs occasioned by District's acceptance and/or approval of any substitute; and

1.8.5.5. The Contractor shall, in the event that a substitute is less costly than that specified, credit the District with one hundred percent (100%) of the net difference between the substitute and the originally specified material. In this event, the Contractor agrees to execute a deductive Change Order to reflect that credit.

1.8.6. In the event Contractor furnishes a material, process, or article more expensive than that specified, the difference in the cost of that material, process, or article so furnished shall be borne by Contractor.

1.8.7. In no event shall the District be liable for any increase in Contract Price or Contract Time due to any claimed delay in the evaluation of any proposed substitute or in the acceptance or rejection of any proposed substitute.

1.8.8. If the District approves a substitution after the award of the Contract, the District shall memorialize that approval in a Change Order or other applicable Contract modification process.

1.9. Materials and Work

1.9.1. Except as otherwise stated in the Contract, Contractor shall provide and pay for all materials, labor, tools, equipment, transportation, supervision, temporary constructions of every nature, and all other services, management, and facilities of every nature whatsoever necessary to execute and complete the Contract within the Contract Time.

,

1.9.2. Unless otherwise specified, all materials shall be new and the best of their respective kinds and grades as noted or specified, and workmanship shall be of good quality.

1.9.3. Materials shall be furnished in sufficient quantities and at such times as to insure uninterrupted progress of Work and shall be stored properly and protected as required.

1.9.4. For all materials and equipment specified or indicated in the Drawings, the Contractor shall provide all labor, materials, equipment, and services necessary for complete assemblies and complete working systems, functioning as intended. Incidental items not indicated on Drawings, nor mentioned in the Specifications, that can legitimately and reasonably be inferred to belong to the Work described or be necessary in good practice to provide a complete assembly or system, shall be furnished as though itemized here in every detail. In all instances, material and equipment shall be installed in strict accordance with each manufacturer's most recent published recommendations and specifications.

1.9.5. Contractor shall, after award of Contract by District and after relevant submittals have been approved, place orders for materials and/or equipment as specified so that delivery of same may be made without delays to the Work. Contractor shall, upon demand from District, present documentary evidence showing that orders have been placed.

1.9.6. District reserves the right but has no obligation, for any neglect in complying with the above instructions, to place orders for such materials and/or equipment as it may deem advisable in order that the Work may be completed at the date specified in the Agreement, and all expenses incidental to the procuring of said materials and/or equipment shall be paid for by Contractor or withheld from payment(s) to Contractor.

1.9.7. Contractor warrants good title to all material, supplies, and equipment installed or incorporated in Work and agrees upon Completion of all Work to deliver the Site to District, together with all improvements and appurtenances constructed or placed thereon by it, and free from any claims, liens, or charges. Contractor further agrees that neither it nor any person, firm, or corporation furnishing any materials or labor for any Work shall have any right to lien any portion of the Premises or any improvement or appurtenance thereon, except that Contractor may install metering devices or other equipment of utility companies or of political subdivision, title to which is commonly retained by utility company or political subdivision. In the event of installation of any such metering device or equipment, Contractor shall advise District as to owner thereof.

1.9.8. Nothing contained in this Article, however, shall defeat or impair the rights of persons furnishing materials or labor under any bond given by Contractor for their protection or any rights under law permitting such protection or any rights under law permitting such persons to look to funds due Contractor in hands of District (e.g., stop payment notices). This provision shall be inserted in all subcontracts and material contracts and notice of its provisions shall be given to all persons furnishing material for work when no formal contract is entered into for such material.

1.9.9. Title to new materials and/or equipment for the Work and attendant liability for its protection and safety shall remain with Contractor until incorporated in the Work of this Contract and accepted by District. No part of any materials and/or equipment shall be removed from its place of storage except for immediate installation in the Work. Contractor shall keep an accurate inventory of all materials and/or equipment in a manner satisfactory to District or its authorized representative and shall, at the District's request, forward it to the District.

1.9.10. Contractor certifies that it shall comply with the recycled product requirements of Public Contract Code section 22150, et seq., including, without limitation, section 22154 which states, "All businesses shall certify in writing to the contracting officer, or his or her representative, the minimum, if not exact, percentage of postconsumer material in the products, materials, goods, or supplies being offered or sold to any local public entity."

2. DISTRICT

2.1. The governing board of the District or its designees will act for the District in all matters pertaining to the Contract.

2.2. The District may, at any time,

2.2.1. Direct the Contractor to communicate with or provide notice to the Construction Manager or the Architect on matters for which the Contract Documents indicate the Contractor will communicate with or provide notice to the District; and/or

2.2.2. Direct the Construction Manager or the Architect to communicate with or direct the Contractor on matters for which the Contract Documents indicate the District will communicate with or direct the Contractor.

2.3. District's Rights if Contractor Fails to Perform. If the District at any time believes that the Contractor is behind schedule, is failing to construct the Project pursuant to the Contract Documents or is otherwise failing to perform any provisions of this Contract, the District, after **FORTY-EIGHT (48)** hours written notice to the Contractor, may take any action necessary or beneficial to the District to complete the Project, takeover the Work of the Contract, terminate or suspend the Contract as indicated herein, or any combination or portion of those actions. The Contractor and the Surety shall be liable to the District for any cost incurred by the District in those actions and the District has the right to deduct the cost thereof from any payment then or thereafter due the Contractor.

3. ARCHITECT

- 3.1.** Architect shall have the authority to act on behalf of District to the extent expressly provided in the Contract Documents and to the extent determined by District to, among other things, observe the progress and quality of the Work on behalf of the District.
- 3.2.** Architect shall have authority to reject materials, workmanship, and/or the Work whenever rejection may be necessary, in Architect's reasonable opinion, to insure the proper execution of the Contract and if Work is defective or does not conform to the requirements of the Contract Documents. Whenever the Architect considers it necessary or advisable, for implementation of the intent of the Contract Documents, the Architect will have authority to require additional inspections or testing of the Work, whether or not such Work is fabricated, installed or completed. Neither this authority of the Architect nor a decision made in good faith by the Architect to exercise or not to exercise that authority shall give rise to a duty or responsibility to the Contractor, Subcontractors, material suppliers, their agents or employees, or other persons performing portions of the Work.
- 3.3.** Architect shall, with the District and on behalf of the District, determine the amount, quality, acceptability, and fitness of all parts of the Work, and interpret the Specifications, Drawings, and shall, with the District, interpret all other Contract Documents.
- 3.4.** Architect shall have all authority and responsibility established by law, including title 24 of the California Code of Regulations.
- 3.5.** Contractor shall provide District and the Construction Manager with a copy of all written communication between Contractor and Architect at the same time as that communication is made to Architect, including, without limitation, all RFIs, correspondence, submittals, claims, and proposed change orders.

4. CONSTRUCTION MANAGER

- 4.1.** If a Construction Manager is used on this Project, the Construction Manager will provide administration of the Contract on the District's behalf. After execution of the Contract and Notice to Proceed, all correspondence and/or instructions from Contractor and/or District shall be forwarded through the Construction Manager. The Construction Manager will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences, or procedures or for safety precautions in connection with the Work, which shall all remain the Contractor's responsibility.
- 4.2.** Construction Manager, however, will have authority to reject materials and/or workmanship not conforming to the Contract Documents, as determined by the District, the Architect, and/or the Project Inspector. Construction Manager shall also have the authority to require special inspection or testing of any portion of the Work, whether it has been fabricated, installed, or fully completed. Any decision made by Construction Manager, in good faith, shall not give rise to any duty or responsibility of the Construction Manager to the Contractor, any Subcontractor, their agents, employees, or other persons performing any of the Work. Construction Manager shall have free access to all parts of Work at any time.
- 4.3.** If the District does not use a Construction Manager on this Project, all references to Construction Manager or CM shall be read as District.

5. INSPECTOR, INSPECTIONS AND TESTS

5.1. Project Inspector

- 5.1.1.** One or more Project Inspector(s), including special Project Inspector(s), as required, will be

assigned to the Work by District, in accordance with requirements of title 24, part 1, of the California Code of Regulations, to enforce the building code and monitor compliance with Plans and Specifications for the Project previously approved by the DSA. Duties of Project Inspector(s) are specifically defined in section 4-342 of said part 1 of title 24.

5.1.2. No Work shall be carried on except with the knowledge and under the inspection of the Project Inspector(s). The Project Inspector(s) shall have free access to all parts of Work at any time. Contractor shall furnish Project Inspector(s) reasonable opportunities for obtaining such information as may be necessary to keep Project Inspector(s) fully informed respecting progress and manner of work and character of materials. Inspection of Work shall not relieve Contractor from the obligation to fulfill the Contract. Project Inspector(s) and the DSA are authorized to stop work whenever the Contractor and/or its Subcontractor(s) are not complying with the Contract Documents. Any work stoppage by the Project Inspector(s) and/or DSA shall be without liability to the District. Contractor shall instruct its Subcontractors and employees accordingly.

5.1.3. If Contractor and/or any Subcontractor requests that the Project Inspector(s) perform any inspection off-site, this shall only be done if it is allowable pursuant to applicable regulations and DSA, if the Project Inspector(s) agree to do so, and at the expense of the Contractor.

5.1.4. Limitations on Project Inspector Authority. The Project Inspector does not have authority to interpret the Contract Documents or to modify the Work depicted in the Contract Documents. No Work inconsistent with the Contract Documents shall be performed solely on the basis of the direction of the Project Inspector, and the Contractor shall be liable to the District for the consequences of all Work performed on such basis.

5.2. Tests and Inspections

5.2.1. Tests and Inspections shall comply with title 24, part 1, California Code of Regulations, group 1, article 5, section 4-335, and with the provisions of the Specifications.

5.2.2. If the Contract Documents, laws, ordinances or any public authority with jurisdiction over the Work requires the Work, or any portion thereof, to be specially tested, inspected or approved, the Contractor shall give the Architect, the Construction Manager and the Project Inspector written notice of the readiness of such Work for observation, testing or inspection at least seventy-two (72) hours prior to the time for the conducting of such test, inspection or observation. If inspection, testing or observation is by authority other than the District, the Contractor shall inform the Project Inspector and the Construction Manager not less than seventy-two (72) hours prior to the date fixed for such inspection, test or observation. The Contractor shall not cover up any portion of the Work subject to tests, inspections or observations prior to the completion and satisfaction of the requirements of such test, inspection or observation. In the event that any portion of the Work subject to tests, inspection or approval shall be covered up by Contractor prior to completion and satisfaction of the requirements of such tests, inspection or approval, Contractor shall be responsible for the uncovering of such portion of the Work as is necessary for performing such tests, inspection or approval without adjustment of the Contract Price or the Contract Time on account thereof.

5.2.3. The District will select an independent testing laboratory to conduct the tests. Selection of the materials required to be tested shall be by the laboratory or the District's representative and not by the Contractor. The Contractor shall notify the District's representative a sufficient time in advance of its readiness for required observation or inspection.

5.2.4. The Contractor shall notify the District's representative a sufficient time in advance of the manufacture of material to be supplied under the Contract Documents, that must by terms of the Contract Documents be tested, in order that the District may arrange for the testing of same at the source of supply. This notice shall be, at a minimum, seventy-two (72) hours prior to the manufacture of the

material that must be tested.

5.2.5. Any material shipped by the Contractor from the source of supply prior to having satisfactorily passed required testing and inspection or prior to the receipt of notice from the representative that testing, and inspection will not be required, shall not be incorporated into and/or onto the Project.

5.2.6. The District will select and pay testing laboratory costs for all tests and inspections. Costs of tests of any materials found to be not in compliance with the Contract Documents shall be paid for by the District and reimbursed by the Contractor or deducted from the Contract Price.

5.3. Costs for After Hours and/or Off-Site Inspections

5.3.1. If the Contractor performs Work outside the Inspector's regular working hours, over a period of more than eight (8) hours per day by any single person, on weekends/holidays or requests the Inspector to perform inspections off Site, then the costs of any inspections required outside regular working hours, over a period of more than eight (8) hours per day by any single person, on weekends/holidays or off Site, shall be borne by the Contractor and may be invoiced to the Contractor by the District or the District may deduct those expenses from the next Progress Payment.

6. CONTRACTOR

Contractor shall construct the Work for the Contract price including any adjustment(s) to the Contract Price pursuant to provisions herein regarding changes to the Contract Price. Except as otherwise noted, Contractor shall provide and pay for all labor, materials, equipment, permits, fees, licenses, facilities, transportation, taxes, and services necessary for the proper execution and Completion of the Work, except as indicated herein.

6.1. Status of Contractor

6.1.1. Contractor is and shall at all times be deemed to be an independent contractor and shall be wholly responsible for the manner in which it and its Subcontractors perform the services required of it by the Contract Documents. Nothing herein contained shall be construed as creating the relationship of employer and employee, or principal and agent, between the District, or any of the District's employees or agents, and Contractor or any of Contractor's Subcontractors, agents or employees. Contractor assumes exclusively the responsibility for the acts of its employees as they relate to the services to be provided during the course and scope of their employment. Contractor, its Subcontractors, agents, and its employees shall not be entitled to any rights or privileges of District employees. District shall be permitted to monitor the Contractor's activities to determine compliance with the terms of the Contract.

6.1.2. As required by law, Contractor and all Subcontractors shall be properly licensed and regulated by the Contractor's State License Board, located at 9821 Business Park Drive, Sacramento, California 95827, with a mailing address of Post Office Box 26000, Sacramento, California, and with a website at <http://www.cslb.ca.gov>.

6.2. Contractor's Supervision

6.2.1. During progress of the Work, Contractor shall keep on the Premises, and at all other locations where any Work related to the Contract is being performed, a competent project manager and construction superintendent who are employees of the Contractor, to whom the District does not object and at least one of whom shall be fluent in English, written and verbal.

6.2.2. The project manager and construction superintendent shall both speak fluently the predominant language of the Contractor's employees.

6.2.3. Before commencing the Work, Contractor shall give written notice to District of the name of its project manager and construction superintendent. The Contractor shall provide adequate supervision for each campus project by designating their project superintendent for **each** campus. Neither the Contractor's project manager nor construction superintendent shall be changed except with prior written notice to District, unless the Contractor's project manager and/or construction superintendent proves to be unsatisfactory to Contractor, District, any of the District's employees, agents, the Construction Manager, or the Architect, in which case, Contractor shall notify District in writing. District retains the right to reasonably refuse Contractor's replacement personnel. The Contractor's project manager and construction superintendent shall each represent Contractor, and all directions given to Contractor's project manager and/or construction superintendent shall be as binding as if given to Contractor.

6.2.4. Contractor shall give efficient supervision to Work, using its best skill and attention. Contractor shall carefully study and compare all Contract Documents, Drawings, Specifications, and other instructions and shall at once report to District, Construction Manager, and Architect any error, inconsistency, or omission that Contractor or its employees and Subcontractors may discover, in writing, with a copy to District's Project Inspector(s). The Contractor shall have responsibility for discovery of errors, inconsistencies, or omissions.

6.2.5. The Contractor's project manager shall devote sufficient time to the Project on site, and in the Contractor's home office to pre-plan activities to meet the Construction Schedule and fulfill all Contract obligations. This includes making timely submittals, issuing and disseminating necessary RFI's, promptly processing and distributing bulletins, change orders and payments, keeping required logs current etc. If any of these activities fall behind contract requirements or dates necessary to complete the Project on time, the Contractor must provide a full-time project manager on the Project Site dedicated solely to the Project, until the deficiencies are corrected.

6.2.6. The Contractor shall verify all indicated dimensions before ordering materials or equipment, or before performing Work. The Contractor shall take field measurements, verify field conditions, and shall carefully compare such field measurements and conditions and other information known to the Contractor with the Project Documents before commencing work. Errors, inconsistencies or omissions discovered shall be immediately reported to the District. Upon commencement of any item of Work, the Contractor shall be responsible for dimensions related to the Work and shall make any corrections necessary to make Work properly fit at no additional cost to District. This responsibility for verification of dimensions is a non-delegable duty and may not be delegated to subcontractors or agents.

6.2.7. Omissions from the Drawings or Specifications, or the misdescription of details of Work which are manifestly necessary to carry out the intent of the Drawings and Specifications, or which are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed Work, but they shall be performed as if fully and correctly set forth and described in the Drawings and Specifications.

6.2.8. The Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction. The Contractor shall be responsible to see that the finished Work complies accurately with the Contract Documents.

6.3. Duty to Provide Fit Workers

6.3.1. Contractor and Subcontractor(s) shall at all times enforce strict discipline and good order among their employees and shall not employ or work any unfit person or anyone not skilled in work assigned to that person. It shall be the responsibility of Contractor to ensure compliance with this requirement. District may require Contractor to permanently remove unfit persons from Project Site.

6.3.2. COVID-19. Contractor shall ensure that all its employees and employees of its subcontractors shall comply with all applicable and existing federal, state, and/or local statutes, orders, rules, regulations,

ordinances, and/or directives relating to construction site safety in connection with COVID-19, and/or any similar virus or derivative strain.

6.3.3. Any person in the employ of Contractor or Subcontractor(s) whom District may deem incompetent or unfit shall be excluded from working on the Project and shall not again be employed on the Project except with the prior written consent of District.

6.3.4. The Contractor shall furnish labor that can work in harmony with all other elements of labor employed or to be employed in the Work.

6.3.5. If Contractor intends to make any change in the name or legal nature of the Contractor's entity, Contractor must first notify the District. The District shall determine if Contractor's intended change is permissible while performing the Contract.

6.3.6. Compliance with Immigration Reform and Control Act of 1986. As required by law, Contractor and all Subcontractors shall employ individuals for the Work in conformity with the Immigration Reform and Control Act of 1986, 8 USC §§1101 et seq.

6.4. Personnel

6.4.1. Contractor, Contractor's employees, Subcontractors, Subcontractors' employees, or any person associated with the Work shall conduct themselves in a manner appropriate for a school site. The District will not permit any (1) verbal or physical contact with neighbors, students, and faculty; (2) profanity, or inappropriate attire or behavior; (3) photographing, videoing, or audio recording of any neighbors, students, and faculty or any posting of any photographs, videos, or audio recordings of any neighbors, students, and faculty on any internet site, social media platform of any kind, regardless of source of any photograph, video, or audio recording. District may require Contractor to permanently remove noncomplying persons from Project Site

6.4.2. The Contractor shall employ a full-time superintendent and necessary assistants who shall have complete authority to represent and act on behalf on the Contractor on all matters pertaining to the Work. The superintendent shall be competent and have a minimum of five (5) years' experience in construction supervision on projects of similar scale and complexity. The superintendent shall be satisfactory to the District and, if not satisfactory, shall be replaced by the Contractor with one that is acceptable to the District. The superintendent shall not be changed without the written consent of the District unless the superintendent ceases to be employed by the Contractor.

6.4.3. There shall be a full-time project superintendent on each school site at all times while there are any trade contractors working on any given project site.

6.4.4. The Contractor shall employ a competent estimator and necessary assistants or contact for sufficient services of an estimating consultant and to process proposed change orders. The estimator shall have a minimum of five (5) years' experience in estimating. The estimator shall be satisfactory to the District and, if not satisfactory, shall be replaced by the Contractor with one that is acceptable. The estimator shall not be changed without the written consent of the District unless the estimator ceases to be employed by the Contractor. The Contractor shall submit PCO's requested by the District within fourteen (14) calendar days.

6.4.5. The Contractor shall employ a competent scheduler and necessary assistants, or contract for sufficient services of a scheduling consultant. The scheduler shall have a minimum of five (5) years' experience in scheduling. The scheduler shall be satisfactory to the District and, if not satisfactory, shall be replaced by the Contractor with one that is acceptable. The scheduler shall not be changed without the written consent of the District unless the scheduler ceases to be employed by the Contractor.

6.4.6. Contractor shall at all times enforce strict discipline and good order among Contractor's employees and shall not employ on the Project any unfit person or anyone not skilled in the task assigned.

6.4.7. If Contractor or any Subcontractor on the Project site fails to comply with any provision herein, the District may have the offending person(s) immediately removed from the Site, and the person(s) shall be replaced within three (3) days, at no additional expense to the District. Contractor, on behalf of it and its Subcontractors, hereby waives any claim that the provisions of this paragraph or the enforcement thereof interferes, or has the potential to interfere, with its right to control the means and methods of its performance and duties under this Contract.

6.5. Prohibition on Harassment

6.5.1. In addition to the non-discrimination requirements in the Contract Documents, the Contractor and all Subcontractors must comply with these provisions prohibiting harassment at the Site. The District is committed to providing a campus and workplace free of sexual harassment and harassment based on factors such as race, color religion, national origin, ancestry, age, medical condition, marital status, disability or veteran status. Harassment includes without limitation, verbal, physical or visual conduct which creates an intimidating, offensive or hostile environment such as racial slurs; ethnic jokes; posting of offensive statements, posters or cartoons or similar conduct. Sexual harassment includes without limitation the solicitation of sexual favors, unwelcome sexual advances, or other verbal, visual or physical conduct of a sexual nature.

6.5.2. Contractor shall take all reasonable steps to prevent harassment from occurring, including without limitation affirmatively raising the subject of harassment among its employees, expressing strong disapproval of any form of harassment, developing appropriate sanctions, informing employees of their right to raise and how to raise the issue of harassment and informing complainants of the outcome of an investigation into a harassment claim.

6.5.3. Contractor shall not permit any person, whether employed by Contractor or a Subcontractor or any other person or entity, performing any Work at or about the Site to engage in any prohibited form of harassment. Any person performing or providing Work on or about the Site engaging in a prohibited form of harassment directed to any student, faculty member or staff of the District or directed to any other person on or about the Site shall be subject to immediate removal and shall be prohibited thereafter from providing or performing any portion of the Work. Upon the District's receipt of any notice or complaint that any person employed directly or indirectly by Contractor on any Subcontractor in performing or providing the Work has engaged in a prohibited form of harassment, the District will promptly undertake an investigation of such notice or complaint. In the event that the District, after such investigation, reasonably determines that a prohibited form of harassment has occurred, the District shall promptly notify the Contractor of the same and direct that the person engaging in such conduct be immediately removed from the Site. Unless the District's determination that a prohibited form of harassment has occurred is grossly negligent or without reasonable cause, District shall have no liability for directing the removal of any person determined to have engaged in a prohibited form of harassment nor shall the Contract Price or the Contract Time be adjusted on account thereof. The indemnity provisions of the Contract Documents apply to any assertion by any person dismissed from performing or providing work at the direction of the District pursuant to this provision; or (ii) the assertion by any person that any person directly or indirectly under the employment or direction of the Contractor has engaged in a prohibited form of harassment directed to or affecting such person. The obligations of the Contractor and the Surety under the preceding sentence are in addition to, and not in lieu of, any other obligation of defense, indemnity and hold harmless whether arising under the Contract Documents, at law or otherwise; these obligations survive completion of the Work or the termination of the Contract.

6.6. Conferences and Meetings.

6.6.1. In addition to the conference and meeting requirements in the Specifications, Contractor's

supervisory personnel for the Work and the Contractor's management personnel shall attend all required meetings as required by the Contract Documents or as requested by the District. The Contractor's personnel participating in conferences and meetings relating to the Work shall be authorized to act on behalf of the Contractor and to bind the Contractor. The Contractor is solely responsible for arranging for the attendance by Subcontractors and Material Suppliers at meetings and conferences relating to the Work as necessary, appropriate or as requested by the District.

6.6.2. Preconstruction Conference. The Contractor's representatives (and representatives of Subcontractors as requested by the District) shall attend a preconstruction conference at such time and place as designated by the District. The preconstruction conference will generally address the requirements of the Work and Contract Documents, and to establish construction procedures. Subject matters of the preconstruction conference will include as appropriate: (a) administrative matters, including an overview of the respective responsibilities of the District, Architect, Construction Manager, Contractor, Subcontractors, Project Inspector, and others performing any part of the Work or services relating to the Work; (b) Submittals; (c) Changes; (d) employment practices, including Certified Payroll preparation and submission and prevailing wage rate responsibilities of the Contractor and Subcontractors; (e) Progress Schedule development and maintenance; (f) development of Schedule of Values and payment procedures; (g) implementation of BIM, if applicable; (h) communication procedures, including the handling of Requests for Information; (i) emergency and safety procedures; (j) Site visitor policies; (k) conduct of Contractor/Subcontractor personnel at the Site; and (l) Completion, Punchlist and closeout procedures.

6.6.3. Progress Meetings. Progress meetings will be conducted on regular intervals (weekly unless otherwise expressly indicated elsewhere in the Contract Documents). The Contractor's representatives and representatives of Subcontractors (as requested by the District) shall attend progress meetings. Progress Meetings will be chaired by the District or the Construction Manager and will generally include as agenda items: Site safety, field issues, coordination of Work, construction progress and impacts to timely Completion, if any. The purposes of the progress meetings include: a formal and regular forum for discussion of the status and progress of the Work by all Project participants, a review of progress or resolution of previously raised issues and action items assigned to the Project participants, and reviews of the Progress schedule and submittals. Contractor shall prepare and submit at each progress meeting a three (3) week look-ahead schedule identifying all planned activities for the next three (3) weeks and any deviations from activities in the current Construction Schedule.

6.6.4. Special Meetings. As deemed necessary or appropriate by the District, special meetings will be conducted with the participation of the Contractor, Subcontractors and other Project participants as requested by the District.

6.6.5. Minutes of Meetings. following conclusion of the preconstruction conference, progress meetings and special meetings, the Architect or the Construction Manager will prepare and distribute minutes reflecting the items addressed and actions taken at a meeting or conference. Unless the Contractor notifies the Architect and the Construction Manager in writing of objections or corrections to minutes prepared hereunder within five (5) days of the date of distribution of the minutes, the minutes as distributed shall constitute the official record of the meeting or conference. No objections or corrections of any Subcontractor or Material Supplier shall be submitted directly to the Architect or the Construction Manager; such objections or corrections shall be submitted to the Architect and the Construction Manager through the Contractor. If the Contractor timely interposes objections or notes corrections, the resolution of such matters shall be addressed at the next scheduled progress meeting.

6.7. Purchase of Materials and Equipment

6.7.1. The Contractor is required to order and obtain materials and equipment sufficiently in advance of its Work at no additional cost or advance payment from District to assure that there will be no delays.

6.7.2. Off-Site Storage of Materials and Equipment Only Upon District's Written Consent. Contractor shall not store materials and/or equipment off site without first obtaining the District's express, written consent. If Contractor receives District's consent to store materials and/or equipment off site ("Stored Materials"), Contractor shall comply with all of the following:

6.7.2.1. Property of Others Insurance. Contractor shall procure and maintain, during the entire time Stored Materials are in off-site storage, insurance coverage acceptable to the District that shall protect Contractor and District from all claims for Stored Materials that are lost, stolen, or damaged. The District shall be named as a loss payee for this insurance coverage. The insurance coverage shall include a "loss payable endorsement" stating that all amounts payable will be paid as a joint check to the Contractor and District. If approved in advance by District, this required insurance may be obtained by an "Employee Theft Protection Insurance Policy" or an "Employee Theft Protection Bond."

6.7.2.2. Payment for Stored Materials. District shall only make payment to Contractor for Stored Materials if agreed upon in advance, in writing, by the District and provided that Contractor submits an itemized list of all Stored Materials with Contractor's Application for Payment. Contractor's itemized list of all Stored Materials shall be supported by all of the following:

6.7.2.2.1. Itemized breakdown of the Stored Materials for the purpose of requesting partial payment, identifying the serial numbers and exact storage location of each piece of equipment and material; and

6.7.2.2.2. Items to be stored shall be placed within an identified isolated secured area within the designated storage facility, clearly labeled with the Owner Name and Project Identification. All stored material are subject to on site verification by the Owner or their designated representative. On site verification by the Owner or designated representative shall be a requirement for the processing of any application for payments.

6.7.2.2.3. Verified invoices for the Stored Materials; and

6.7.2.2.4. Original copy of Property of Others Insurance, Employee Theft Protection Insurance Policy, or an Employee Theft Protection Bond based on the type of insurance required by the District. These documents shall include certificates and endorsements stating the coverage and that the District is a loss payee or obligee, as appropriate.

6.7.2.2.5. An express, signed document from Contractor indicating that the District may, at any time and at its sole discretion, have unhindered and unqualified access to all Stored Materials and to remove the Stored Materials.

6.8. Documents on Work

6.8.1. Contractor shall at all times keep on the Work Site, or at another location as the District may authorize in writing, one legible copy of all Contract Documents, including Addenda and Change Orders, and titles 19 and 24 of the California Code of Regulations, the specified edition(s) of the Uniform Building Code (electronic versions are acceptable), all approved Drawings, Plans, Schedules, and Specifications, and all codes and documents referred to in the Specifications, and made part thereof. These documents shall be kept in good order and available to District, Construction Manager, Architect, Architect's representatives, the Project Inspector(s), and all authorities having jurisdiction. Contractor shall be acquainted with and comply with the provisions of these titles as they relate to this Project. (See particularly the duties of Contractor, title 24, part 1, California Code of Regulations, section 4-343.)

Contractor shall also be acquainted with and comply with all California Code of Regulations provisions relating to conditions on this Project, particularly titles 8 and 17. Contractor shall coordinate with Architect and Construction Manager and shall submit its verified report(s) according to the requirements of title 24.

6.8.2. Daily Job Reports.

6.8.2.1. Contractor shall maintain, at a minimum, at least one (1) set of Daily Job Reports on the Project. These must be prepared by the Contractor's employee(s) who are present on Site, and must include, at a minimum, the following information:

- 6.8.2.1.1.** A brief description of all Work performed on that day.
- 6.8.2.1.2.** A summary of all other pertinent events and/or occurrences on that day.
- 6.8.2.1.3.** The weather conditions on that day.
- 6.8.2.1.4.** A list of all Subcontractor(s) working on that day,
- 6.8.2.1.5.** A list of each Contractor employee working on that day and the total hours worked for each employee.
- 6.8.2.1.6.** A complete list of all equipment on Site that day, whether in use or not.
- 6.8.2.1.7.** A complete list of all materials, supplies, and equipment delivered on that day.
- 6.8.2.1.8.** A complete list of all inspections and tests performed on that day.

6.8.2.2. Each day Contractor shall provide a copy of the previous day's Daily Job Report to the District or the District's Construction Manager. Daily Job Reports shall be submitted using Procore.

6.9. Preservation of Records

District shall have the right to examine and audit all Daily Job Reports or other Project records of Contractor's project manager(s), project superintendent(s), and/or project foreperson(s), all certified payroll records and/or related documents including, without limitation, payroll, payment, timekeeping and tracking documents; all books, estimates, records, contracts, documents, bid documents, bid cost data, subcontract job cost reports, and other data of the Contractor, any Subcontractor, and/or supplier, including computations and projections related to bidding, negotiating, pricing, or performing the Work or Contract modification, in order to evaluate the accuracy, completeness, and currency of the cost, manpower, coordination, supervision, or pricing data at no additional cost to the District. These documents may be duplicative and/or be in addition to any Bid Documents held in escrow by the District. Contractor shall make available at its office at all reasonable times the materials described in this paragraph for the examination, audit, or reproduction until three (3) years after final payment under this Contract. Notwithstanding the provisions above, Contractor shall provide any records requested by any governmental agency, if available, after the time set forth above.

6.10. Integration of Work

6.10.1. Contractor shall do all cutting, fitting, patching, and preparation of Work as required to make its several parts come together properly, to fit it to receive or be received by work of other contractors, and to coordinate tolerances to various pieces of work, showing upon, or reasonably implied by, the Drawings

and Specifications for the completed structure, and shall conform them as District and/or Architect may direct.

6.10.2. All cost caused by defective or ill-timed Work shall be borne by Contractor, inclusive of repair work.

6.10.3. Contractor shall not endanger any work performed by it or anyone else by cutting, excavating, or otherwise altering work and shall not cut or alter work of any other contractor except with written consent of District.

6.11. Obtaining of Permits and Licenses

6.11.1. Contractor shall secure and pay for all permits, licenses, and certificates as indicated in the Special Conditions.

6.12. Work to Comply with Applicable Laws and Regulations

6.12.1. Contractor shall give all notices and comply with all applicable laws, ordinances, rules, and regulations relating to the Work, including the specific laws, ordinances, rules, and regulations as indicated and specified in the Contract Documents and identified below, including but not limited to the appropriate statutes and administrative code sections. If Contractor observes that Drawings and Specifications are at variance therewith, or should Contractor become aware of the development of conditions not covered by Contract Documents that will result in finished Work being at variance therewith, Contractor shall promptly notify District in writing and any changes deemed necessary by District shall be made as provided in Contract for changes in Work.

6.12.1.1. National Electrical Safety Code, U. S. Department of Commerce

6.12.1.2. National Board of Fire Underwriters' Regulations

6.12.1.3. Uniform Building Code, latest addition, and the California Code of Regulations, title 24, including amendments

6.12.1.4. Manual of Accident Prevention in Construction, latest edition, published by A.G.C. of America

6.12.1.5. Industrial Accident Commission's Safety Orders, State of California

6.12.1.6. Regulations of the State Fire Marshall (title 19, California Code of Regulations) and Pertinent Local Fire Safety Codes

6.12.1.7. Americans with Disabilities Act

6.12.1.8. Education Code of the State of California

6.12.1.9. Government Code of the State of California

6.12.1.10. Labor Code of the State of California, division 2, part 7, Public Works and Public Agencies

6.12.1.11. Public Contract Code of the State of California

6.12.1.12. California Art Preservation Act

6.12.1.13. U. S. Copyright Act

6.12.1.14. U. S. Visual Artists Rights Act

6.12.2. Contractor shall comply with all applicable mitigation measures, if any, adopted by any public agency with respect to this Project pursuant to the California Environmental Quality Act (Public Resources Code sections 21000 et. seq.)

6.12.3. If Contractor performs any Work that it knew, or through exercise of reasonable care should have known, to be contrary to any applicable laws, ordinance, rules, or regulations, Contractor shall bear all costs arising therefrom.

6.12.4. Where Specifications or Drawings state that materials, processes, or procedures must be approved by the DSA, State Fire Marshall, or other body or agency, Contractor shall be responsible for satisfying requirements of such bodies or agencies.

6.13. Safety/Protection of Persons and Property

6.13.1. Contractor will be solely and completely responsible for conditions of the Work Site, including safety of all persons and property during performance of the Work. This requirement will apply continuously and not be limited to normal working hours.

6.13.2. COVID-19. Contractor is responsible for complying with all applicable and existing federal, state, and/or local statutes, orders, rules, regulations, ordinances, and/or directives relating to construction site safety in connection with COVID-19, and/or any similar virus or derivative strain. Contractor shall ensure it has supervisor employees onsite that are trained and knowledgeable of all of these requirements to ensure full compliance on Project Site(s).

6.13.3. The wearing of hard hats will be mandatory at all times for all personnel on Site. Contractor shall supply sufficient hard hats to properly equip all employees and visitors.

6.13.4. Any construction review of the Contractor's performance is not intended to include review of the adequacy of the Contractor's safety measures in, on, or near the Work Site.

6.13.5. Implementation and maintenance of safety programs shall be the sole responsibility of the Contractor.

6.13.6. Contractor shall furnish to the District a copy of the Contractor's safety plan within the time frame indicated in the Contract Documents and specifically adapted for the Project.

6.13.7. Contractor shall be responsible for all damages to persons or property that occur as a result of its fault or negligence in connection with the performance of the Contract and shall take all necessary measures and be responsible for the proper care and completion and final acceptance by District. All Work shall be solely at Contractor's risk with the exception of damage to the Work caused by "acts of God" as defined in Public Contract Code section 7105.

6.13.8. Contractor shall take, and require Subcontractors to take, all necessary precautions for safety of workers on the Project and shall comply with all applicable federal, state, local, and other safety laws, standards, orders, rules, regulations, and building codes to prevent accidents or injury to persons on, about, or adjacent to premises where Work is being performed and to provide a safe and healthful place of employment. Contractor shall furnish, erect, and properly maintain at all times, all necessary safety devices, safeguards, construction canopies, signs, nets, barriers, lights, and watchmen for protection of workers and the public and shall post danger signs warning against hazards created by such features in the course of construction.

6.13.9. Hazards Control. Contractor shall store volatile wastes in covered metal containers and remove them from the Site daily. Contractor shall prevent accumulation of wastes that create hazardous conditions. Contractor shall provide adequate ventilation during use of volatile or noxious substances.

6.13.10. Contractor shall designate a responsible member of its organization on the Project, whose duty shall be to post information regarding protection and obligations of workers and other notices required under occupational safety and health laws, to comply with reporting and other occupational safety requirements, and to protect the life, safety, and health of workers. Name and position of person so designated shall be reported to District by Contractor.

6.13.11. Contractor shall correct any violations of safety laws, rules, orders, standards, or regulations. Upon the issuance of a citation or notice of violation by the Division of Occupational Safety and Health, Contractor shall correct such violation promptly.

6.13.12. Storm Water. Contractor shall comply with the District's Storm Water Pollution Prevention Plan (SWPPP) and, if indicated in the Special Conditions, shall be the District's Qualified SWPPP Practitioner, at no additional cost to the District.

6.13.13. In an emergency affecting safety of life or of work or of adjoining property, Contractor, without special instruction or authorization, shall act, at its discretion, to prevent such threatened loss or injury. Any compensation claimed by Contractor on account of emergency work shall be determined by agreement.

6.13.14. All salvage materials will become the property of the Contractor and shall be removed from the Site unless otherwise called for in the Contract Documents. However, the District reserves the right to designate certain items of value that shall be turned over to the District unless otherwise directed by District.

6.13.15. All connections to public utilities and/or existing on-site services shall be made and maintained in such a manner as to not interfere with the continuing use of same by the District during the entire progress of the Work.

6.13.16. Contractor shall provide such heat, covering, and enclosures as are necessary to protect all Work, materials, equipment, appliances, and tools against damage by weather conditions, such as extreme heat, cold, rain, snow, dry winds, flooding, or dampness.

6.13.17. Contractor shall protect and preserve the Work from all damage or accident, providing temporary roofs, window and door coverings, boxing, or other construction as required by the Architect. Contractor shall be responsible for existing structures, walks, roads, trees, landscaping, and/or improvements in working areas; and shall provide adequate protection therefor. If temporary removal is necessary of any of the above items, or damage occurs due to the Work, the Contractor shall replace same at its expense with same kind, quality, and size of Work or item damaged. This shall include any adjoining property of the District and others.

6.13.18. Contractor shall take adequate precautions to protect existing roads, sidewalks, curbs, pavements, utilities, adjoining property, and structures (including, without limitation, protection from settlement or loss of lateral support), and to avoid damage thereto, and repair any damage thereto caused by construction operations.

6.13.19. Contractor shall confine apparatus, the storage of materials, and the operations of workers to limits indicated by law, ordinances, permits, or directions of Architect, and shall not interfere with the Work or unreasonably encumber Premises or overload any structure with materials. Contractor shall enforce all instructions of District and Architect regarding signs, advertising, fires, and smoking, and require that all workers comply with all regulations while on Project Site.

6.13.20. Contractor, Contractor's employees, Subcontractors, Subcontractors' employees, or any person associated with the Work shall conduct themselves in a manner appropriate for a school site. No verbal or physical contact with neighbors, students, and faculty, profanity, or inappropriate attire or behavior will be permitted. District may require Contractor to permanently remove noncomplying persons from Project Site.

6.13.21. Contractor shall take care to prevent disturbing or covering any survey markers, monuments, or other devices marking property boundaries or corners. If such markers are disturbed, Contractor shall have a civil engineer, registered as a professional engineer in California, replace them at no cost to District.

6.13.22. In the event that the Contractor enters into any agreement with owners of any adjacent property to enter upon the adjacent property for the purpose of performing the Work, Contractor shall fully indemnify, defend, and hold harmless each person, entity, firm, or agency that owns or has any interest in adjacent property. The form and content of the agreement of indemnification shall be approved by the District prior to entering the adjacent property. The Contractor shall also indemnify the District as provided in the indemnification provision herein. These provisions shall be in addition to any other requirements of the owners of the adjacent property.

6.13.22.1. Infectious Disease Release. Contractor acknowledges that it is voluntarily and freely entering into the Contract for this Project and deciding to perform the Work which will require Contractor to enter upon and into the Site and that Contractor use of the Site includes the possible exposure to and illness from an Infectious Disease. Contractor further acknowledges the dangers involved and with full knowledge of these dangers, voluntarily agrees to assume all risks of bodily injury, death, or property damage, whether those risks are known or unknown. Contractor hereby releases District, its agents, representatives, officers, consultants, employees, trustees, and volunteers from any and all liabilities, causes of action, lawsuits, claims, demands, or damages of any kind whatsoever that Contractor, its staff, participants, relatives, children, spouse, partner, household members, family members, employees, guests, invitees, volunteers, agents, consultants, Subcontractors, and any other person tracing exposure or illness to Contractor, now have, or may have in the future, for injury, trauma, illness, loss, unwanted contact, harassment, disability, death or property damages related to being exposed to or contracting an Infectious Disease while using the Site for the performance of the Work. Contractor shall include this paragraph in all subcontracts with Subcontractors.

6.13.22.2. Infectious Disease Release. Contractor acknowledges that it is voluntarily and freely entering into the Contract for this Project and deciding to perform the Work which will require Contractor to enter upon and into the Site and that Contractor use of the Site includes the possible exposure to and illness from an Infectious Disease. Contractor further acknowledges the dangers involved and with full knowledge of these dangers, voluntarily agrees to assume all risks of bodily injury, death, or property damage, whether those risks are known or unknown. Contractor hereby releases District, its agents, representatives, officers, consultants, employees, trustees, and volunteers from any and all liabilities, causes of action, lawsuits, claims, demands, or damages of any kind whatsoever that Contractor, its staff, participants, relatives, children, spouse, partner, household members, family members, employees, guests, invitees, volunteers, agents, consultants, Subcontractors, and any other person tracing exposure or illness to Contractor, now have, or may have in the future, for injury, trauma, illness, loss, unwanted contact, harassment, disability, death or property damages related to being exposed to or contracting an Infectious Disease while using the Site for the performance of the Work. Contractor shall include this paragraph in all subcontracts with Subcontractors.

6.13.22.3. Contractor shall ensure it has supervisor employees onsite that are trained and knowledgeable of all of these requirements to ensure full compliance on Project Site(s).

6.13.22.4. Any cost to comply with these “Infectious Disease Compliance Provisions” shall be at Contractor’s sole expense and expense but may be included in the Contract Price.

6.13.23.

6.13.24. Photos, Videos and Use of Drones.

6.13.24.1 Contractor may photograph or video the progress of the Work and shall provide all of those photos and videos to the District at the District’s request. Contractor may utilize drones or similar aerial equipment to photograph, video or monitor the progress of the Work and for security purposes, but Contractor must comply with all legal requirements of the Federal government, the State of California, and the County and City in which the Project is located, applicable to the use of drones or similar aerial equipment. In addition, Contractor shall ensure that no photographs, videos or digital recordings of any kind are taken of District students or staff.

6.13.24.2. If Contractor utilizes drones or any other unmanned aircraft during construction operations, Contractor must either ensure its insurance coverage includes unmanned aircraft operations or procure and maintain a separate aircraft liability policy to cover unmanned aircraft operations.

6.14. Working Evenings and Weekends

Contractor may be required to work evenings and/or weekends at no additional cost to the District. Contractor shall give the District seventy-two (72) hours’ notice prior to performing any evening and/or weekend work. Contractor shall perform all evening and/or weekend work only upon District’s written approval and in compliance with all applicable rules, regulations, laws, and local ordinances including, without limitation, all noise and light limitations. Further clarification of evening and/or weekend work has been addressed within Section 01 11 00 Summary of Work sub-section 1.9 Contractor’s Use of Premises as well as Section 11 11 10 Off Hour Work Requirements.

6.15. Noise and Dust Control

6.15.1. In addition to the noise control, dust control and related requirements in the Specifications, Contractor shall control the noise and dust at the Site as indicated here.

6.15.2. Noise Control. The Contractor shall install noise reducing devices on construction equipment. Contractor shall comply with the requirements of the city and county having jurisdiction with regard to noise ordinances governing construction sites and activities. Construction equipment noise at the Site shall be limited as required by applicable law, rule or regulation. If classes are in session at any point during the progress of the Work, and, in the District’s reasonable discretion, the noise from any Work disrupts or disturbs the students or faculty or the normal operation of the school at the Site, at the District’s request, the Contractor shall schedule the performance of that Work around normal school hours or make other arrangements so that the Work does not cause disruption or disturbance. In no event shall those arrangements result in adjustment of the Contract Price or the Contract Time.

6.15.3. Dust Control. The Contractor shall be fully and solely responsible for maintaining and upkeeping all areas of the Site and adjoining areas, outdoors and indoors, free from flying debris, grinding powder, sawdust, dirt and dust as well as any other product, product waste or work waste, that by becoming airborne may cause respiratory inconveniences to persons, particularly to students and District personnel. Additionally, the Contractor shall take specific care to avoid deposits of airborne dust or airborne elements. Those protection devices, systems or methods shall be in accordance with the regulations set

forth by the EPA and OSHA, and other applicable law, rule or regulation. Additionally, the Contractor shall be responsible to regularly and routinely clean up and remove any and all deposits of dust and other elements. Damage and/or any liability derived from the Contractor's failure to comply with these requirements shall be exclusively at the cost of the Contractor, including, without limitation, any and all penalties that may be incurred for violations of applicable law, rule or regulation, and any amounts expended by the District to pay such damages shall be due and payable to the District on demand. Contractor shall replace any damages property or part thereof and professionally clean any and all items that become covered or partially covered to any degree by dust or other airborne elements. If classes are in session at any point during the progress of Work, and, in the District's reasonable discretion, flying debris, grinding powder, sawdust, dirt or dust from any Work disrupts or disturbs the students or faculty or the normal operation of the school, at the District's request, the Contractor shall schedule the performance of all that Work around normal school hours and make other arrangements so that the Work does not cause disruption or disturbance. In no event shall those arrangements result in adjustment of the Contract Price or the Contract Time.

6.15.4. Contractor Failure to Comply. If the Contractor fails to comply with the requirements for dust control, noise control, or any other maintenance or clean up requirement of the Contract Documents, the District, Architect, Project Inspector, or Construction Manager shall notify the Contractor in writing and the Contractor shall take immediate action. Should the Contractor fail to respond with immediate and responsive action and not later than twenty-four (24) hours from that notification, the District shall have the absolute right to proceed as it may deem necessary to remedy such matter. Any and all costs incurred by the District in connection with those actions shall be the sole responsibility of, and be borne by, the Contractor; the District may deduct those amounts from the Contract Price then or thereafter due the Contractor.

6.16. Cleaning Up

6.16.1. The Contractor shall provide all services, labor, materials, and equipment necessary for protecting the Work, all school occupants, furnishings, equipment, and building structure from damage until its Completion and final acceptance by District. Dust barriers shall be provided to isolate dust and dirt from construction operations. At Completion of the Work and portions thereof, Contractor shall clean to the original state any areas beyond the Work area that become dust laden as a result of the Work. The Contractor must erect the necessary warning signs and barricades to ensure the safety of all school occupants. The Contractor at all times must maintain good housekeeping practices to reduce the risk of fire damage and must make a fire extinguisher, fire blanket, and/or fire watch, as applicable, available at each location where cutting, braising, soldering, and/or welding is being performed or where there is an increased risk of fire.

6.16.2. Contractor at all times shall keep Premises free from debris such as waste, rubbish, and excess materials and equipment caused by the Work. Contractor shall not leave debris under, in, or about the Premises, but shall promptly remove same from the Premises on a daily basis. If Contractor fails to clean up, District may do so, and the cost thereof shall be charged to Contractor. If Contract is for work on an existing facility, Contractor shall also perform specific clean-up on or about the Premises upon request by the District as it deems necessary for the continuing education process. Contractor shall comply with all related provisions of the Specifications.

6.16.3. Deep Cleaning within designated areas of the existing campus facilities renovated by this contract shall be provided by the Contractor.

6.16.4. If the Construction Manager, Architect, or District observes the accumulation of trash and debris, the District will give the Contractor a 24-hour written notice to mitigate the condition.

6.16.5. Should the Contractor fail to perform the required clean-up, or should the clean-up be deemed unsatisfactory by the District, the District will then perform the clean-up. All cost associated with the

clean-up work (including all travel, payroll burden, and costs for supervision) will be deducted from the Contract Price, or District may withhold those amounts from payment(s) to Contractor.

7. SUBCONTRACTORS

- 7.1.** Contractor shall provide the District with information for all Subcontracts as required in the Contractor's Submittals and Schedules Section.
- 7.2.** No contractual relationship exists between the District and any Subcontractor, supplier, or sub-subcontractor by reason of the Contract.
- 7.3.** Contractor agrees to bind every Subcontractor by terms of the Contract as far as those terms are applicable to Subcontractor's work. If Contractor shall subcontract any part of the Contract, Contractor shall be as fully responsible to District for acts and omissions of any Subcontractor and of persons either directly or indirectly employed by any Subcontractor, as it is for acts and omissions of persons directly employed by Contractor. The divisions or sections of the Specifications are not intended to control the Contractor in dividing the Work among Subcontractors or limit the work performed by any trade.
- 7.4.** District's consent to, or approval of, or failure to object to, any Subcontractor under the Contract shall not in any way relieve Contractor of any obligations under the Contract and no such consent shall be deemed to waive any provisions of the Contract.
- 7.5.** Contractor acknowledges sections 4100 through 4114 of the Public Contract Code of the State of California, as regards subletting and subcontracting, and shall comply with all applicable requirements therein. In addition, Contractor acknowledges sections 1720 through 1861 of the Labor Code of the State of California, as regards the payment of prevailing wages and related issues and shall comply with all applicable requirements therein all including, without limitation, section 1775 and the Contractor's and Subcontractors' obligations and liability for violations of prevailing wage law and other applicable laws.
- 7.6.** No Contractor whose Bid is accepted shall, without consent of the awarding authority and in full compliance with section 4100, et seq, of the Public Contract Code, including, without limitation, sections 4107, 4107.5, and 4109 of the Public Contract Code, either:
 - 7.6.1.** Substitute any person as a Subcontractor in place of the Subcontractor designated in the original Bid; or
 - 7.6.2.** Permit any Subcontract to be assigned or transferred, or allow any portion of the Work to be performed by anyone other than the original Subcontractor listed in the Bid; or
 - 7.6.3.** Sublet or subcontract any portion of the Work in excess of one-half of one percent (1/2 of 1%) of the Contractor's total bid as to which his original bid did not designate a Subcontractor.
- 7.7.** The Contractor shall be responsible for the coordination of the trades, Subcontractors, sub-subcontractors, and material or equipment suppliers working on the Project.
- 7.8.** Contractor is solely responsible for settling any differences between the Contractor and its Subcontractor(s) or between Subcontractors.
- 7.9.** Contractor must include in all of its subcontracts the assignment provisions as indicated in the Termination section of these General Conditions.

8. OTHER CONTRACTS/CONTRACTORS

- 8.1.** District reserves the right to let other contracts, and/or to perform work with its own forces, in connection with other portions of the Project or other construction or operations at or about the Site. Contractor shall afford other contractors reasonable opportunity for introduction and storage of their materials and execution of their work and shall properly coordinate and connect Contractor's Work with the work of other contractors.
- 8.2.** In addition to Contractor's obligation to protect its own Work, Contractor shall protect the work of any other contractor that Contractor encounters while working on the Site.
- 8.3.** If any part of Contractor's Work depends for proper execution or results upon work of District or any other contractor, Contractor shall inspect and promptly report to the District in writing before proceeding with its Work any defects in District's or any other contractor's work that render Contractor's Work unsuitable for proper execution and results. Contractor shall be held accountable for damages to District for District's or any other contractor's work that Contractor failed to inspect or should have inspected. Contractor's failure to inspect and report shall constitute Contractor's acceptance of all District's or any other contractor's work as fit and proper for reception of Contractor's Work, except as to defects that may develop in District's or any other contractor's work after execution of Contractor's Work.
- 8.4.** To ensure proper execution of its subsequent work, Contractor shall measure and inspect work already in place and shall at once report to the District in writing any discrepancy between that executed work and the Contract Documents.
- 8.5.** Contractor shall ascertain to its own satisfaction the scope of the Project and nature of District's or any other contracts that have been or may be awarded by District in completion of the Project to the end that Contractor may perform this Contract in light of the other contracts, if any.
- 8.6.** Nothing herein contained shall be interpreted as granting to Contractor exclusive occupancy of the Site, the Premises, or of the Project. The District shall have complete access to the Project Site for any reasonable purpose at all times. Contractor shall not cause any unnecessary hindrance or delay to the use and/or school operation(s) of the Premises and/or to District or any other contractor working on the Project. If simultaneous execution of any contract or school operation is likely to cause interference with performance of Contractor's Contract, Contractor shall coordinate with those contractor(s), person(s), and/or entity(s) and shall notify the District of the resolution.

9. DRAWINGS AND SPECIFICATIONS

- 9.1.** A complete list of all Drawings that form a part of the Contract is to be found as an index on the Drawings themselves, and/or may be provided to the Contractor and/or in the Table of Contents.
- 9.2.** Materials or Work described in words that so applied have a well-known technical or trade meaning shall be deemed to refer to recognized standards, unless noted otherwise.
- 9.3.** Trade Name or Trade Term. It is not the intention of the Contract to go into detailed descriptions of any materials and/or methods commonly known to the trade under "trade name" or "trade term." The mere mention or notation of "trade name" or "trade term" shall be considered sufficient notice to Contractor that it will be required to complete the work so named, complete, finished, and operable, with all its appurtenances, according to the best practices of the trade.
- 9.4.** The naming of any material and/or equipment shall mean furnishing and installing of same, including all incidental and accessory items thereto and/or labor therefor, as per best practices of the trade(s) involved, unless specifically noted otherwise.

9.5. Contract Documents are complementary, and what is called for by one shall be binding as if called for by all. As such, Drawings and Specifications are intended to be fully cooperative and to agree. However, if Contractor observes that Drawings and Specifications are in conflict, Contractor shall promptly notify District and Architect in writing, and any necessary changes shall be made as provided in the Contract Documents.

9.6. In the case of discrepancy or ambiguity in the Contract Documents, the order of precedence in the Agreement shall prevail. However, in the case of discrepancy or ambiguity solely between and among the Drawings and Specifications, the discrepancy or ambiguity shall be resolved in favor of the interpretation that will provide District with the functionally complete and operable Project described in the Drawings and Specifications. In case of ambiguity, conflict, or lack of information, District will furnish clarifications with reasonable promptness.

9.7. Drawings and Specifications are intended to comply with all laws, ordinances, rules, and regulations of constituted authorities having jurisdiction, and where referred to in the Contract Documents, the laws, ordinances, rules, and regulations shall be considered as a part of the Contract within the limits specified. Contractor shall bear all expense of correcting work done contrary to said laws, ordinances, rules, and regulations.

9.8. Ownership of Drawings

9.8.1. All copies of the Drawings, Designs, Specifications, and copies of other incidental architectural and engineering work, or copies of other Contract Documents furnished by District, are the property of District. They are not to be used by Contractor in other work and, with the exception of signed sets of Contract Documents, are to be returned to District on request at Completion of Work or may be used by District as it may require without any additional costs to District. Neither the Contractor nor any Subcontractor, or material or equipment supplier shall own or claim a copyright in the Drawings, Specifications, and other documents prepared by the Architect. District hereby grants the Contractor, Subcontractors, sub-subcontractors, and material or equipment suppliers a limited license to use applicable portions of the Drawings prepared for the Project in the execution of their Work under the Contract Documents.

10. CONTRACTOR'S SUBMITTALS AND SCHEDULES

Contractor's submittals shall comply with the provisions and requirements of the Specifications including, without limitation Submittals. No submittal, unless approved in writing by the District as acceptable and complete, shall be a Contract Document.

10.1. Schedules, Safety Plan and Complete Subcontractor List

10.1.1. Within **TEN (10)** calendar days after the date of the Notice to Proceed (unless otherwise specified in the Notice to Proceed or in the Special Conditions), Contractor shall prepare and submit to the District for review, in a form supported by sufficient data to substantiate its accuracy as the District may require:

10.1.1.2. **Schedule of Work.** Contractor shall provide a preliminary schedule of construction indicating the starting and completion dates of the various stages of the Work, including any information and following any form as may be specified in the Specifications. Once approved by District, this shall become the Construction Schedule. This schedule shall include and identify all tasks that are on the Project's critical path with a specific determination of the start and completion of each critical path task, all contract milestones and each milestone's completion date(s) as may be required by the District, and the date of Project Completion.

10.1.1.2.1. **Proposed Advanced Schedule.** The District is not required to accept an early completion ("advanced") schedule; i.e., one that shows early completion dates for the Contract

completion or milestones. Contractor shall not be entitled to extra compensation if the District allows the Contractor to proceed performing the Contract on an earlier ("advanced") schedule and Contractor completes the Project, for whatever reason, beyond the date shown in that earlier ("advanced") schedule, but within the Time for Completion indicated in the Contract. A schedule showing the work completed in less than the Time for Completion indicated in the Contract, shall be considered to have Project Float.

10.1.1.2.2. Float or Slack in the Schedule. Float or slack is the amount of time between the early start date and the late start date, or the early finish date and the late finish date, of any of the activities in the schedule. Float or slack is not for the exclusive use of or benefit of either the District or the Contractor, but its use shall be determined solely by the District.

10.1.1.3. Schedule of Submittals. The Contractor shall provide a preliminary schedule of submittals, including Shop Drawings, Product Data, and Samples submittals. Once approved by District, this shall become the Submittal Schedule. All submittals shall be forwarded to the District by the date indicated on the approved Submittal Schedule, unless an earlier date is necessary to maintain the Construction Schedule, in which case those submittals shall be forwarded to the District so as not to delay the Construction Schedule.

10.1.1.4. Schedule of Values. The Contractor shall provide a preliminary schedule of values for all component parts of the Work for which progress payments may be requested. The schedule of values must include quantities and prices of items totaling the Contract Price and must subdivide the Work into component parts in sufficient detail to serve as the basis for progress payments during construction. The shall be a separate schedule of values for each campus project/DSA application number. The preliminary schedule of values should include, at a minimum, the following information and the following structure:

10.1.1.4.1. Divided into at least the following categories:

- 10.1.1.4.1.1.** Overhead and profit;
- 10.1.1.4.1.2.** Supervision;
- 10.1.1.4.1.3.** General conditions;
- 10.1.1.4.1.4.** Layout;
- 10.1.1.4.1.5.** Mobilization;
- 10.1.1.4.1.6.** Submittals;
- 10.1.1.4.1.7.** Bonds and insurance;
- 10.1.1.4.1.8.** Closeout documentation;
- 10.1.1.4.1.9.** Demolition;
- 10.1.1.4.1.10.** Installation;
- 10.1.1.4.1.11.** Rough-in;
- 10.1.1.4.1.12.** Finishes;
- 10.1.1.4.1.13.** Testing;
- 10.1.1.4.1.14.** Punch List and acceptance.

10.1.1.4.2. Divided by each of the following areas:

- 10.1.1.4.2.1.** Site work;
- 10.1.1.4.2.2.** Building;
- 10.1.1.4.2.3.** Shade Structure
- 10.1.1.4.2.4.** Play field

10.1.1.4.3. The preliminary schedule of values shall not provide for values any greater than the following percentages of the Contract value:

- 10.1.1.4.3.1.** Mobilization and layout combined to equal not more than 1%;
- 10.1.1.4.3.2.** Submittals, samples and shop drawings combined to equal not more than 3%;
- 10.1.1.4.3.3.** Bonds and insurance combined to equal not more than 2%.

10.1.1.4.4. Closeout Documentation. Closeout Documentation shall have a value in the preliminary schedule of not less than 5%. The value for Closeout Documentation shall be in addition to and shall not be a part of the Contract retention.

10.1.1.4.5. All items on the Schedule of Values must have a specific completion date on the Construction Schedule, or District has approved the Construction Schedule and the Construction Schedule is fully cost-loaded and resource-loaded, unless waived by the District in writing, and detailed as required by the Contract Documents

10.1.1.4.6. Contractor shall certify that the preliminary schedule of values as submitted to the District is accurate and reflects the costs as developed in preparing Contractor's bid. The preliminary schedule of values shall be subject to the District's review and approval of the form and content thereof. In the event that the District objects to any portion of the preliminary schedule of values, the District shall notify the Contractor, in writing, of the District's objection(s) to the preliminary schedule of values. Within five (5) calendar days of the date of the District's written objection(s), Contractor shall submit a revised preliminary schedule of values to the District for review and approval. The foregoing procedure for the preparation, review and approval of the preliminary schedule of values shall continue until the District has approved the entirety of the preliminary schedule of values.

10.1.1.4.7. Once the preliminary schedule of values is approved by the District, this shall become the Schedule of Values. The Schedule of Values shall not be thereafter modified or amended by the Contractor without the prior written consent and approval of the District, which may be granted or withheld in the sole discretion of the District.

10.1.1.4.8. Notwithstanding any provision of the Contract Documents to the contrary, payment of the Contractor's overhead, supervision, general conditions costs, and profit, as reflected in the Schedule of Values, shall be paid by the District in equal installments, based on percentage complete, with the disbursement of Progress Payments and the Final Payment.

10.1.1.4.9. The Contractor shall not "front-load" the Schedule of Values with false dollar amounts for activities to be performed in the early stages of the Project. The District may, in its sole discretion, utilize the costs listed in the Schedule of Values as the true cost of items to be deducted from the Contract Price through credit or deductive Change Order. The values for each line item shall include the amount of overhead and profit applicable to each item of work and shall include, at a minimum, a breakdown between rough and finish Work for the basic trades as well as individual dollar figures for large dollar equipment and materials to be installed or furnished for the Project. No individual line item or scope of work in the Schedule of Values shall exceed \$50,000, except with the express, written consent of the District. Exceptions will be given by the District for a single item of Equipment for which the true cost exceeds \$50,000. The Schedule of Values shall be subject to the District's review and approval of the form and content thereof. Upon request, Contractor shall provide District with data and documentation substantiating the accuracy of the proposed line items. In the event that the District shall reasonably object to any portion of the Schedule of Values, within ten (10) days of the District's receipt of the Schedule of Values, the District shall notify the Contractor, in writing of the District's objection(s) to the Schedule of Values together with any request for substantiating data or documentation. Within five (5) days of the date of the District's written objection(s) and request for substantiating data and documentation, Contractor shall submit a revised Schedule of Values to the District for review and approval together with the requested data and documentation. The foregoing procedure for the preparation, review and approval of the

Schedule of Values shall continue until the District has approved of the entirety of the Schedule of Values. Once the Schedule of Values is approved by the District, the Schedule of Values shall not be thereafter modified or amended by the Contractor without the prior consent and approval of the District, which may be granted or withheld in the sole reasonable discretion of the District. Notwithstanding any provision of the Contract Documents to the contrary, payment of the Contractor's overhead, supervision and general conditions costs and profit, as such items are reflected in the Schedule of Values, shall be made incrementally as included in the activities included in the Approved Construction Schedule.

10.1.1.5. Safety Plan. The Contractor shall provide a preliminary Contractor's Safety Plan specifically adapted for the Project. Contractor's Safety Plan shall comply with the following requirements:

10.1.1.5.1. All applicable requirements of California Division of Industrial Safety ("CalOSHA") and/or of the United States Occupational Safety and Health Administration ("OSHA").

10.1.1.5.2. All provisions regarding Project safety, including all applicable provisions in these General Conditions.

10.1.1.5.3. Contractor's Safety Plan shall be prepared in both English and in the predominant language(s) of the Contractor's and its Subcontractors' employees.

10.1.1.6. Complete Subcontractor List. Contractor shall provide a preliminary Subcontractor List stating the name, address, telephone number, facsimile number, California State Contractors License number, classification, and monetary value of all Subcontracts for parties furnishing labor, material, or equipment for the Project.

10.1.2. Contractor must provide all schedules both in hard copy and electronically, in a format (e.g., Microsoft Project or Primavera) approved in advance by the District.

10.1.3. The District will review the schedules submitted and the Contractor shall make changes and corrections in the schedules as requested by the District and resubmit the schedules until approved by the District.

10.1.4. The District shall have the right at any time to revise the Schedule of Values if, in the District's sole opinion, the Schedule of Values does not accurately reflect the value of the Work performed.

10.1.5. All submittals and schedules must be approved by the District before Contractor can rely on them as a basis for payment.

10.2. Monthly Progress Schedule(s)

10.2.1. Contractor shall provide Monthly Progress Schedule(s) to the District. A Monthly Progress Schedule shall update the approved Construction Schedule or the last Monthly Progress Schedule, showing all work completed and to be completed. The Monthly Progress Schedule shall be sent to the District and shall be in a format acceptable to the District and contain a written narrative of the progress of work that month and any changes, delays, or events that may affect the work. The process for District approval of the Monthly Progress Schedule shall be the same as the process for approval of the Construction Schedule.

10.2.2. Contractor shall also submit Monthly Progress Schedule(s) with all payment applications.

10.3. Material Safety Data Sheets (MSDS)

Contractor is required to ensure Material Safety Data Sheets are available in a readily accessible place at the Work Site for any material requiring a Material Safety Data Sheet per the Federal "Hazard Communication" standard, or employees right to know law. The Contractor is also required to ensure proper labeling on substances brought onto the Project Site and that any person working with the material or within the general area of the material is informed of the hazards of the substance and follows proper handling and protection procedures. Two additional copies of the Material Safety Data Sheets shall also be submitted directly to the District.

10.4. Logistic Plan

Contractor shall provide a staging and logistics plan identifying laydown areas, loading and unloading areas, crane locations, fence locations, temporary utility connections, trailer locations, and emergency evacuation meeting area. This Logistics Plan must be approved by the District prior to the Contractor mobilizing on the Site. The Owner will make available a preliminary pre-bid Logistic Plan addressing potential campus issues to the Contractor during the bid phase of the project time. The contractor shall produce their own Staging and Site Logistic Plan that conforms to their proposed plan of work.

10.5. Information Included in Submittals.

All Submittals shall be accompanied by a written transmittal and each set of plans shall carry a "wet stamp" or other writing by the Contractor providing an identification of the portion of the Drawings or the Specifications pertaining to the Submittal, with each Submittal numbered consecutively for ease of reference along with the following information: (i) date of submission; (ii) Project name; (iii) name of submitting Subcontractor; and (iv) if applicable, the revision number. The foregoing information is in addition to, and not in lieu of, any other information required for the District's review, evaluation and approval of the Contractor's Submittals. Each Submittal shall be complete with its required number of copies, no piecemeal documentation is allowed. Any Submittal not bearing the required wet stamp as stated herein, shall be rejected until the appropriate wet stamp information is provided on each submittal.

10.6. Verification of Submittal Information.

By approving and submission of Submittals, the Contractor represents to the District and Architect that the Contractor has determined and verified materials, field measurements, field construction criteria, catalog numbers and similar data related thereto and has checked and coordinated the information contained within such Submittals with the requirements of the Work and of the Contract Documents. Each Submittal shall include the following certification duly executed by the Contractor's Superintendent or Project Manager for the Work: "The Contractor has reviewed and approved the field dimensions and construction criteria of the attached Submittal. The Contractor has verified that the Submittal is complete and includes notations of any portion of the Work depicted in the Submittal which is not in strict conformity with the Contract Documents. The information in the attached Submittal has been reviewed and coordinated by the Contractor with information included in other Submittals."

10.7. Contractor Responsibility for Deviations.

The Contractor shall not be relieved of responsibility for correcting deviations from the requirements of the Contract Documents by the District's and Architect's review of Submittals unless the Contractor has specifically informed the District in writing of such deviation at the time of submission of the Submittal and the District has given written approval to the specific deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Submittals by the District's and Architect's review or comments thereon.

10.8. No Performance of Work Without Architect Review.

The Contractor shall perform no portion of the Work requiring the District's and Architect's review of Submittals until the District and Architect have completed their review and returned the Submittal to the Contractor indicating "No Exception Taken" to that Submittal. The Contractor shall not perform any portion of the Work forming a part of a Submittal or which is affected by a related Submittal until the entirety of the Submittal or other related Submittal has been fully processed. All Work shall be in accordance with the final action taken by the District and the Architect review in review of Submittals and other applicable portions of the Contract Documents.

10.9. District and Architect Review of Submittals.

The purpose of the District's and Architect's review of Submittals and the time for the District's and Architect's return of Submittals to the Contractor shall be as set forth elsewhere in the Contract Documents. If the District and/or Architect return a Submittal as rejected or requiring correction(s) with re-submission, the Contractor, so as not to delay the progress of the Work, shall promptly thereafter resubmit a Submittal conforming to the requirements of the Contract Documents; the resubmitted Submittal shall indicate the portions thereof modified in accordance with the District's and Architect's direction. When professional certification of performance criteria of materials, systems or equipment is required by the Contract Documents, the District shall be entitled to rely upon the accuracy and completeness of the Contractor's calculations and certifications accompanying Submittals. The District's and Architect's review of the Submittals is for the limited purposes described in the Contract Documents. The District and Architect will review each Submittal twice. Should additional Submittals be required as a result of failure of the Contractor to address comments, the Contractor will pay for the Architect's services on a time and material basis for each subsequent review.

10.10. Deferred Approval Items.

In the event that any portion of the Work is designated in the Contract Documents as a "Deferred Approval" item from DSA, Contractor shall be solely and exclusively responsible for the preparation of Submittals for such item(s) in a timely manner so as not to delay or hinder the completion of the Work within the Contract Time. All work, labor, materials, equipment or services necessary to complete the design, engineering and permitting/approval of the Deferred Approval items shall be provided by the Contractor without adjustment of the Contract Price or the Contract Time.

10.11. Contractor Responsibility for Deviations

The Contractor shall not be relieved of responsibility for correcting deviations from the requirements of the Contract Documents by the District's or Architect's review of Submittals unless the Contractor has specifically informed the District and the Architect in writing of such deviation at the time of submission of the Submittal and the District and the Architect have given written approval to the specific deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Submittals by the District's or the Architect's review or comments thereon.

11. SITE ACCESS, CONDITIONS AND REQUIREMENTS

11.1. Site Investigation

Before bidding on the Work, Contractor shall make a careful investigation of the Site and thoroughly familiarize itself with the requirements of the Contract. By the act of submitting a bid for the Work included in the Contract, Contractor shall be deemed to have made a complete study and investigation, and to be familiar with and accepted the existing conditions of the Site.

11.2. Soils Investigation Report

11.2.1. When a soils investigation report obtained from test holes at Site is available, that report shall be

available to the Contractor but shall not be a part of the Contract. Any information obtained from that report, or any information given on Drawings as to subsurface soil condition or to elevations of existing grades or elevations of underlying rock is approximate only, is not guaranteed, does not form a part of the Contract, and Contractor may not rely thereon. By submitting its bid, Contractor acknowledges that it made visual examination of Site and made whatever tests Contractor deems appropriate to determine underground condition of soil.

11.2.2. Contractor agrees that no claim against District will be made by Contractor for damages and hereby waives any rights to damages if, during progress of Work, Contractor encounters subsurface or latent conditions at Site materially differing from those shown on Drawings or indicated in Specifications, or for unknown conditions of an unusual nature that differ materially from those ordinarily encountered in the work of the character provided for in Plans and Specifications, except as indicated in the provisions of these General Conditions regarding trenches, trenching, and/or existing utility lines.

11.3. Access to Work

District and its representatives shall at all times have access to Work wherever it is in preparation or progress, including storage and fabrication. Contractor shall provide safe and proper facilities for access so that District's representatives may perform their functions.

11.4. Layout and Field Engineering

11.4.1. All field engineering required for layout of this Work and establishing grades for earthwork operations shall be furnished by Contractor at its expense. This Work shall be done by a qualified, California-registered civil engineer approved in writing by District and Architect. Any required Record and/or As-Built Drawings of Site development shall be prepared by the approved civil engineer.

11.4.2. Contractor shall be responsible for having ascertained pertinent local conditions such as location, accessibility, and general character of the Site and for having satisfied itself as to the conditions under which the Work is to be performed. District shall not be liable for any claim for allowances because of Contractor's error or negligence in acquainting itself with the conditions at the Site.

11.4.3. Contractor shall protect and preserve established benchmarks and monuments and shall make no changes in locations without the prior written approval of District. Contractor shall replace any benchmarks or monuments that are lost or destroyed subsequent to proper notification of District and with District's approval.

11.5. Utilities for Construction

Utilities necessary to complete the Work and to completely perform all of the Contractors' obligations shall be obtained by the Contractor without adjustment of the Contract Price. The Contractor shall furnish and install necessary or appropriate temporary distributions of utilities, including utilities furnished by the District. Any such temporary distributions shall be removed by the Contractor upon completion of the Work. The costs of all such utility services, including the installation and removal of temporary distributions thereof, shall be borne by the Contractor and included in the Contract Price. Also refer to other utility requirements as indicated in the Specifications.

11.6. Sanitary Facilities

At all times during Work at the Site, the Contractor shall obtain and maintain temporary sanitary facilities in conformity with applicable law, rule or regulation. The Contractor shall maintain temporary sanitary facilities in a neat and clean manner with sufficient toilet room supplies. Personnel engaged in the Work are not permitted to use toilet facilities at the Site. Also refer to other Sanitary facility requirements as indicated in the Specifications.

11.7. Surveys

Contractor shall provide surveys done by a California-licensed civil engineer surveyor to determine locations of construction, grading, and site work as required to perform the Work.

11.8. Regional Notification Center

Contractor, except in an emergency, shall contact the appropriate regional notification center at least two (2) days prior to commencing any excavation if the excavation will be conducted in an area or in a private easement that is known, or reasonably should be known, to contain subsurface installations other than the underground facilities owned or operated by the District, and obtain an inquiry identification number from that notification center. No excavation shall be commenced and/or carried out by the Contractor unless an inquiry identification number has been assigned to the Contractor or any Subcontractor and the Contractor has given the District the identification number. Any damages arising from Contractor's failure to make appropriate notification shall be at the sole risk and expense of the Contractor. Any delays caused by failure to make appropriate notification shall be at the sole risk of the Contractor and shall not be considered for an extension of the Contract time.

11.9. Existing Utility Lines

11.9.1. Pursuant to Government Code section 4215, District assumes the responsibility for removal, relocation, and protection of main or trunk utility lines and facilities located on the construction Site at the time of commencement of construction under the Contract with respect to any such utility facilities that are not identified in the Plans and Specifications. Contractor shall not be assessed for liquidated damages for delay in completion of the Project caused by failure of District or the owner of a utility to provide for removal or relocation of such utility facilities.

11.9.2. Locations of existing utilities provided by District shall not be considered exact, but approximate within reasonable margin and shall not relieve Contractor of responsibilities to exercise reasonable care nor costs of repair due to Contractor's failure to do so. District shall compensate Contractor for the costs of locating, repairing damage not due to the failure of Contractor to exercise reasonable care, and removing or relocating such utility facilities not indicated in the Plans and Specifications with reasonable accuracy, and for equipment necessarily idle during such work.

11.9.3. No provision herein shall be construed to preclude assessment against Contractor for any other delays in completion of the Work. Nothing in this Article shall be deemed to require District to indicate the presence of existing service laterals, appurtenances, or other utility lines, within the exception of main or trunk utility lines, whenever the presence of these utilities on the Site can be inferred from the presence of other visible facilities, such as buildings, meter junction boxes, on or adjacent to the Site.

11.9.4. If Contractor, while performing Work, discovers utility facilities not identified by District in Contract Plans and Specifications, Contractor shall immediately, but in no case longer than two (2) Business Days, notify the District and the utility in writing. The cost of repair for damage to above-mentioned visible facilities without prior written notification to the District shall be borne by the Contractor.

11.10. Notification

Contractor understands, acknowledges and agrees that the purpose for prompt notification to the District pursuant to these provisions is to allow the District to investigate the condition(s) so that the District shall have the opportunity to decide how the District desires to proceed as a result of the condition(s). Accordingly, failure of Contractor to promptly notify the District in writing, pursuant to the applicable provisions of these General Conditions, shall constitute Contractor's waiver of any claim for damages or delay incurred as a result of the condition(s).

11.11. Hazardous Materials

Contractor shall comply with all provisions and requirements of the Contract Documents related to hazardous materials including, without limitation, certifications related to hazardous materials in the document entitled Certifications to be Completed by Contractor.

11.12. No Signs

Neither the Contractor nor any other person or entity shall display any signs not required by law or the Contract Documents at the Site, fences trailers, offices, or elsewhere on the Site without specific prior written approval of the District.

12. TRENCHES

12.1. Trenches Greater Than Five Feet

Pursuant to Labor Code section 6705, if the Contract Price exceeds \$25,000 and involves the excavation of any trench or trenches five (5) feet or more in depth, the Contractor shall, in advance of excavation, promptly submit to the District and/or a registered civil or structural engineer employed by the District or Architect, a detailed plan showing the design of shoring for protection from the hazard of caving ground during the excavation of such trench or trenches.

12.2. Excavation Safety

If such plan varies from the Shoring System Standards established by the Construction Safety Orders, the plan shall be prepared by a registered civil or structural engineer, but in no case shall such plan be less effective than that required by the Construction Safety Orders. No excavation of such trench or trenches shall be commenced until said plan has been accepted by the District or by the person to whom authority to accept has been delegated by the District.

12.3. No Tort Liability of District

Pursuant to Labor Code section 6705, nothing in this Article shall impose tort liability upon the District or any of its employees.

12.4. No Excavation without Permits

The Contractor shall not commence any excavation Work until it has secured all necessary permits including the required CAL OSHA excavation/shoring permit. Any permits shall be prominently displayed on the Site prior to the commencement of any excavation.

12.5. Discovery of Hazardous Waste, Unusual Conditions and/or Unforeseen Conditions

12.5.1. Pursuant to Public Contract Code section 7104, if the Work involves digging trenches or other excavations that extend deeper than four (4) feet below the surface, the Contractor shall immediately, but in no case longer than two (2) Business Days, and before the following conditions are disturbed, notify the District, in writing, of any:

12.5.1.2. Material that the Contractor believes may be material that is hazardous waste, as defined in section 25117 of the Health and Safety Code, and requires removal to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.

12.5.1.3. Subsurface or latent physical conditions at the Site differing from those indicated.

12.5.1.4. Unknown physical conditions at the Site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract.

12.5.2. The District shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the Contractor's cost of, or the time required for, performance of any part of the Work, shall issue a Change Order under the procedures described herein.

12.5.3. In the event that a dispute arises between District and the Contractor whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of the Work, the Contractor shall not be excused from any scheduled Completion date provided for by the Contract but shall proceed with all work to be performed under the Contract. The Contractor shall retain any and all rights provided by the Contract or by law that pertain to the resolution of disputes and protests, which include the requirement that Contractor complies with the notice and PCO provisions of the Contract Documents. Contractor's failure to submit a proposed change order pursuant to the terms of the Contract Documents shall be deemed a waiver of Contractor's right to an adjustment of the Contract Price of Contract Time.

13. INSURANCE AND BONDS

13.1. Insurance

Unless different provisions and/or limits are indicated in the Special Conditions, all insurance required of Contractor and/or its Subcontractor(s) shall be in the amounts indicated herein and include the provisions set forth herein.

13.1.1. Commercial General Liability and Automobile Liability Insurance

13.1.1.2. Contractor shall procure and maintain, during the life of the Contract, Commercial General Liability Insurance and Automobile Liability Insurance that shall protect Contractor, District, State, Construction Manager(s), Project Inspector(s), and Architect(s) from all claims for bodily injury, property damage, personal injury, death, advertising injury, and medical payments arising from operations under the Contract. This coverage shall be provided in a form at least as broad as the Insurance Services Office (ISO) standard form. Contractor shall ensure that Products Liability and Completed Operations coverage, Fire Damage Liability, and any Auto including owned, non-owned, and hired, are included within the above policies and at the required limits, or Contractor shall procure and maintain these coverages separately.

13.1.1.3. Contractor's deductible or self-insured retention for its Commercial General Liability Insurance policy shall not exceed \$25,000 unless approved in writing by District.

13.1.2. Umbrella Liability Insurance

13.1.2.2. Contractor shall procure and maintain, during the life of the Contract, an Excess Liability and/or Umbrella Liability Insurance Policy. Any Umbrella Liability Insurance Policy shall protect Contractor, District, State, Construction Manager(s), Project Manager(s), and Architect(s) in the amounts indicated herein and shall comply with all requirements for Commercial General Liability and Automobile Liability and Employers' Liability Insurance. This coverage shall be provided in a form at least as broad as the Insurance Services Office (ISO) standard form.

13.1.2.3. There shall be no gap between the per occurrence amount of any underlying policy and the start of the coverage under the Umbrella Liability Insurance Policy.

13.1.2.4. Whether this Excess Liability and/or Umbrella Liability Insurance Policy is written on a “follow form” or “stand alone” form, the coverages shall equal or greater than the Contractor’s Commercial General Liability and Automobile Liability and Employers’ Liability Insurance with no exclusions that reduce or eliminate coverage items.

13.1.3. Subcontractor(s): Contractor shall require its Subcontractor(s), if any, to procure and maintain Commercial General Liability Insurance, Automobile Liability Insurance, and Umbrella Liability Insurance with minimum limits equal to at least fifty percent (50%) of the amounts required of the Contractor.

13.1.4. Workers’ Compensation and Employers’ Liability Insurance

13.1.4.2. In accordance with provisions of section 3700 of the California Labor Code, the Contractor and every Subcontractor shall be required to secure the payment of compensation to its employees.

13.1.4.3. Contractor shall procure and maintain, during the life of this Contract, Workers’ Compensation Insurance and Employers’ Liability Insurance for all of its employees engaged in Work under the Contract, on/or at the Site of the Project. This coverage shall cover, at a minimum, medical and surgical treatment, disability benefits, rehabilitation therapy, and survivors’ death benefits. Contractor shall require its Subcontractor(s), if any, to procure and maintain Workers’ Compensation Insurance and Employers’ Liability Insurance for all employees of Subcontractor(s). Any class of employee or employees not covered by a Subcontractor’s insurance shall be covered by Contractor’s insurance. If any class of employee or employees engaged in Work under the Contract, on or at the Site of the Project, are not protected under the Workers’ Compensation Insurance, Contractor shall provide, or shall cause a Subcontractor to provide, adequate insurance coverage for the protection of any employee(s) not otherwise protected before any of those employee(s) commence work.

13.1.5. Sexual Molestation and Abuse Liability Insurance. Contractor shall procure and maintain, during the life of this Contract, sexual molestation and abuse insurance. Contractor shall require its Subcontractor(s), if any, to procure and maintain sexual molestation and abuse insurance for all employees of Subcontractor(s). Any class of employee or employees not covered by a Subcontractor’s insurance shall be covered by Contractor’s insurance. If any class of employee or employees engaged in Work under the Contract, on or at the Site of the Project, are not covered under the sexual molestation and abuse insurance, Contractor shall provide, or shall cause a Subcontractor to provide, adequate insurance coverage to cover any employee(s) not otherwise covered before any of those employee(s) commence work.

13.1.6. Builder's Risk Insurance: Builder's Risk “All Risk” Insurance.

13.1.6.1. Contractor (Builder) shall procure and maintain, during the life of this Contract, Builder’s Risk (Course of Construction), or similar first party property coverage acceptable to the District, issued on a replacement cost value basis. The cost shall be consistent with the total replacement cost of all insurable Work included within the Contract Documents.

13.1.6.2. Coverage is to insure against all risks of accidental physical loss and shall include without limitation the perils of vandalism and/or malicious mischief (both without any limitation regarding vacancy or occupancy), sprinkler leakage, water damage, mold, civil authority, theft, sonic disturbance, collapse, wind, fire, war, terrorism, lightning, smoke, and rioting. Coverage shall include debris removal, demolition, increased costs due to enforcement of all applicable ordinances and/or laws in the repair and replacement of damaged and undamaged portions of the property, and reasonable costs for the Architect’s and engineering services and expenses required as a result of any insured loss upon the Work and Project, including completed Work and Work in progress, to the full insurable value thereof.

13.1.6.3. Coverage shall be maintained until final payment has been made as provided under the Contract or until no person or entity other than the District has an insurable interest in the property to be covered, whichever is later. This insurance shall cover as insureds the District, Contractor, all Subcontractors of every tier on the Project, and all vendors and suppliers. Coverage must also be maintained for any materials stored offsite that will be incorporated into the Project.

13.1.6.4. The deductible for this insurance shall be paid by Contractor.

13.1.6.5. Contractor must review the Special Conditions to confirm the scope of this requirement and if the District has modified this provision.

13.1.7. Proof of Carriage of Insurance and Other Requirements: Endorsements and Certificates

13.1.7.1. Contractor shall not commence Work, nor shall it allow any Subcontractor to commence Work under the Contract, until Contractor and its Subcontractor(s) have procured all required insurance and Contractor has delivered in duplicate to the District complete endorsements (or entire insurance policies) and certificates indicating the required coverages have been obtained, and the District has approved these documents.

13.1.7.2. Endorsements, certificates, and insurance policies shall include the following:

13.1.7.2.1. A clause stating:

13.1.7.2.1.1. "This policy shall not be amended, canceled or modified and the coverage amounts shall not be reduced until notice has been mailed to District, Architect, and Construction Manager stating date of amendment, modification, cancellation or reduction. Date of amendment, modification, cancellation or reduction may not be less than thirty (30) days after date of mailing notice."

13.1.7.2.1.2. In lieu of receiving an endorsement with this clause, the District may, at its sole discretion, accept written notification from Contractor and its insurer to the District of any amendments, modifications, cancellations or reduction in coverage, not less than thirty (30) days prior to such coverage changes occur.

13.1.7.2.2. Language stating in particular those insured, extent of insurance, location and operation to which insurance applies, expiration date, to whom cancellation and reduction notice will be sent, and length of notice period.

13.1.7.3. All endorsements, certificates and insurance policies shall state that District, its trustees, employees and agents, the State of California, Construction Manager(s), Project Manager(s), Inspector(s) and Architect(s) are named additional insureds under all policies except Workers' Compensation Insurance and Employers' Liability Insurance.

13.1.7.4. Contractor's and Subcontractors' insurance policy(s) shall be primary and non-contributory to any insurance or self-insurance maintained by District, its trustees, employees and/or agents, the State of California, Construction Manager(s), Project Manager(s), Inspector(s), and/or Architect(s).

13.1.7.5. All endorsements shall waive any right to subrogation against any of the named additional insureds.

13.1.7.6. All policies shall be written on an occurrence form.

13.1.7.7. Unless otherwise stated in the Special Conditions, all of Contractor's insurance shall be

placed with insurers **ADMITTED** in California with a current A.M. Best's rating of no less than **A—** or **A: VII.**

13.1.7.8. The insurance requirements set forth herein shall in no way limit the Contractor's liability arising out or relating to the performance of the Work or related activities.

13.1.7.9. Failure of Contractor and/or its Subcontractor(s) to comply with the insurance requirements herein shall be deemed a material breach of the Agreement.

13.1.8. Insurance Policy Limits

Unless different limits are indicated in the Special Conditions, the limits of insurance shall not be less than the following amounts:

Commercial General Liability	Includes: Personal & Advertising Injury, Product Liability and Completed Operations	\$2,000,000 each occurrence; \$4,000,000 general aggregate
Automobile Liability – <u>Any</u> Auto	Combined Single Limit	\$2,000,000 per occurrence
Excess Liability (Umbrella)		\$6,000,000 per occurrence; \$6,000,000 aggregate
Workers Compensation		Statutory limits pursuant to State law
Employers' Liability		\$2,000,000 each accident, each disease; \$2,000,000 policy limit
Builder's Risk (Course of Construction)		Issued for the value and scope of Work indicated herein.
Property of Others	Combined Single Limit General Aggregate	Issued for the value and scope of Work stored off-site.

13.2. Contract Security – Bonds

13.2.6. Contractor shall furnish two surety bonds issued by a California admitted surety insurer as follows:

13.2.6.1. Performance Bond: A bond in an amount at least equal to one hundred percent (100%) of Contract Price as security for faithful performance of this Contract.

13.2.6.2. Payment Bond: A bond in an amount at least equal to one hundred percent (100%) of the Contract Price as security for payment of persons performing labor and/or furnishing materials in connection with the Contract.

13.2.7. Cost of bonds shall be included in the Bid and Contract Price.

13.2.8. All bonds related to the Project shall be in the forms set forth in the Contract Documents and shall comply with all requirements of the Contract Documents, including, without limitation, the bond forms.

14. WARRANTY/GUARANTEE/INDEMNITY

14.1. Warranty/Guarantee

14.1.1. Contractor shall obtain and preserve for the benefit of the District, manufacturer's warranties on materials, fixtures, and equipment incorporated into the Work.

14.1.2. In addition to guarantees required elsewhere, Contractor shall, and hereby does guarantee and warrant all Work against all defects for a period of **TWO (2)** years after the later of the following dates:

14.1.2.1. The date of completion as defined in Public Contract Code section 7107, subdivision (c),

14.1.2.2. The commissioning date for the Project, if any.

14.1.3. At the District's sole option, Contractor shall repair or replace any and all of that Work, together with any other Work that may be displaced in so doing, that may prove defective in workmanship and/or materials within a **TWO (2)** year period from date of Completion as defined above without expense whatsoever to District. In the event of failure of Contractor and/or Surety to commence and pursue with diligence said replacements or repairs within **TEN (10)** days after being notified in writing, Contractor and Surety hereby acknowledge and agree that District is authorized to proceed to have defects repaired and made good at expense of Contractor and/or Surety who hereby agree to pay costs and charges therefore immediately on demand.

14.1.4. If, in the opinion of District, defective work creates a dangerous condition or requires immediate correction or attention to prevent further loss to District or to prevent interruption of operations of District, District will attempt to give the notice required above. If Contractor or Surety cannot be contacted or neither complies with District's request for correction within a reasonable time as determined by District, District may, notwithstanding the above provision, proceed to make all corrections and/or provide attentions the District believes are necessary. The costs of correction or attention shall be charged against Contractor and Surety of the guarantees provided in this Article or elsewhere in the Contract Documents.

14.1.5. The above provisions do not in any way limit the guarantees on any items for which a longer guarantee is specified or on any items for which a manufacturer gives a guarantee for a longer period. Contractor shall furnish to District all appropriate guarantee or warranty certificates as indicated in the Specifications or upon request by District.

14.1.6. Nothing herein shall limit any other rights or remedies available to District.

14.2. Indemnity

14.2.1. To the furthest extent permitted by California law, Contractor shall indemnify, defend with legal counsel reasonably acceptable to the District, keep and hold harmless the District and its consultants, the Architect and its consultants, the Construction Manager and its consultants, separate contractors, and their respective board members, officers, representatives, contractors, agents, and employees, in both individual and official capacities ("Indemnitees"), against all suits, claims, damages, losses, and expenses, including but not limited to attorney's fees, caused by, arising out of, resulting from, or incidental to, the performance of the Work by Contractor, its Subcontractors, vendors, or suppliers, including, without limitation, any such suit, claim, damage, loss, or expense attributable to, without limitation, bodily injury, sickness, disease, death, alleged patent violation or copyright infringement, or to injury to or destruction of tangible property (including damage to the Work itself) including the loss of use resulting therefrom, except to the extent caused by the sole negligence, active negligence, or willful misconduct of the Indemnitees, and/or to any extent that would render these provisions void or unenforceable. This agreement and obligation of Contractor shall not be construed to negate, abridge, or otherwise reduce any right or obligation of indemnity that would otherwise exist as to any party or person described herein. This indemnification, defense, and hold harmless obligation includes, without limitation:

14.2.1.1. Any failure or alleged failure by Contractor to comply with any provision of law, any

failure or alleged failure to timely and properly fulfill all of its obligations under the Contract Documents in strict accordance with their terms, and without limitation, any stop payment notice actions or liens, including liens by the California Department of Labor Standards Enforcement.

14.2.1.2. Any claim arising (including bid protests) from any errors or mistakes in Contractor's bid documents provided to Subcontractors.

14.2.2. Contractor shall give prompt notice to the District in the event of any injury (including death), loss, or damage included herein. Without limitation of the provisions herein, if Contractor's agreement to indemnify, defend, and hold harmless the Indemnitees as provided herein against liability for damage arising out of bodily injury to persons or damage to property caused by or resulting from the negligence of any of the Indemnitees shall to any extent be or be determined to be void or unenforceable, it is the intention of the parties that these circumstances shall not otherwise affect the validity or enforceability of Contractor's agreement to indemnify, defend, and hold harmless the rest of the Indemnitees, as provided herein, and in the case of any such suits, claims, damages, losses, or expenses caused in part by the default, negligence, or act or omission of Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, and in part by any of the Indemnitees, Contractor shall be and remain fully liable on its agreements and obligations herein to the full extent permitted by law.

14.2.3. In any and all claims against any of the Indemnitees by any employee of Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, Contractor's indemnification obligation herein shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

14.2.4. The defense and indemnification obligations hereunder shall survive the Completion of Work, including the warranty/guarantee period, and/or the termination of the Agreement.

15. TIME

15.1. Notice to Proceed

District may issue a Notice to Proceed as indicated in the Instructions to Bidders.

15.2. Hours of Work

Work shall be performed during regular working hours as permitted by the appropriate governmental agency except that in the event of an emergency, or when required to complete the Work in accordance with job progress, Work may be performed outside of regular working hours with the advance written consent of the District and approval of any required governmental agencies. Contractor and Subcontractors shall continuously furnish sufficient forces to ensure the performance of the Work in accordance with the Construction Schedule.

15.3. Progress and Completion

15.3.1. Time of the Essence

Time limits stated in the Contract Documents are of the essence to the Contract. By executing the Agreement, Contractor confirms that the Contract Time is a reasonable period for performing the Work.

15.3.2. No Commencement Without Insurance

15.3.2.1. Contractor shall not commence operations on the Project or elsewhere prior to the effective date of insurance and bonds. The date of commencement of the Work shall not be changed by the effective date of such insurance. If Contractor commences Work without insurance and bonds, all Work is performed at Contractor's peril and shall not be compensable until and unless Contractor secures bonds and insurance pursuant to the terms of the Contract Documents and subject to District's claim for damages.

15.4. Schedule

Contractor shall provide to District, Construction Manager, and Architect a schedule in conformance with the Contract Documents and as required in the Notice to Proceed and the Contractor's Submittals and Schedules section of these General Conditions.

15.5. Expeditious Completion

The Contractor shall proceed expeditiously with adequate forces and shall achieve Completion within the Contract Time.

16. EXTENSIONS OF TIME – LIQUIDATED DAMAGES

16.1. Contractor's Notice of Delay

16.1.1. In addition to the requirements indicated in this subsection, Contractor shall submit any request for an adjustment of the Contract Price, or the Contract Time through the Change Order provisions in these General Conditions.

16.1.2. Contractor shall, within **FIVE (5)** calendar days of any delay impacting the critical path in completing the Work, notify District in writing of the causes of the delay including documentation and facts explaining the delay.

16.1.3. Any request by Contractor for an adjustment of the Contract Price or the Contract Time for a delay shall be submitted in accordance with the provisions in the Contract Documents governing changes in Work. When requesting time, requests must be submitted with full justification and documentation. Such justification must be based on the official Construction Schedule as updated at the time of occurrence of the delay or execution of Work related to any changes to the Scope of Work.

16.1.4. Any claim for delay must include the following information as support, without limitation:

16.1.4.1. Duration. The duration of the activity relating to the changes in the Work and the resources (manpower, equipment, material, etc.) required to perform the activities within the stated duration.

16.1.4.2. Logical Ties / Fragnets. Specific logical ties to the Contract Schedule for the proposed changes and/or delay showing the activity/activities in the Construction Schedule that are affected by the change and/or delay. (A portion of any delay of seven (7) days or more must be provided.) Include a "fragnet" analysis for the portion of the schedule and the activities the Contractor contends are impacted by the delay.

16.1.4.3. Updated Construction Schedule. A recovery or updated Construction Schedule must be submitted.

16.1.5. District shall review the facts and extent of any noticed delay and may grant Contract Time extension(s) of time for completing Work when, in the District's judgment, the findings of fact justify an extension.

16.1.6. Extension(s) of time shall apply only to that portion of Work affected by delay and shall not apply to other portions of Work not so affected.

16.1.7. An extension of time may only be granted if Contractor has timely submitted the updated Construction Schedule as required herein.

16.1.8. Following submission of a notice of delay, the District may determine whether the delay is to be considered:

16.1.8.1. Excusable and Compensable, Excusable and Non-Compensable, or Unexcused;

16.1.8.2. How long the delay continues; and

16.1.8.3. To what extent the prosecution and Completion of the Work might be delayed thereby.

16.1.9. Contractor's failure to request adjustment(s) of the Contract Time in strict conformity with applicable provisions of the Contract Documents shall be deemed Contractor's waiver of its right to assert a claim for a delay.

16.1.10. Limitations Upon Adjustment of Contract Time on Account of Delays. Any adjustment of the Contract Time on account of an Excusable Delay or a Compensable Delay shall be limited as set forth herein. No adjustment of the Contract Time shall be made on account of any Excusable Delays or Compensable Delays unless those delay(s) actually and directly impact Work or Work activities on the critical path of the then current and updated approved Construction Schedule as of the date on which a delay first occurs. The District shall not be deemed in breach of, or otherwise in default of any obligation hereunder, if the District shall deny a request by the Contractor for an adjustment of the Contract Time for any delay that does not actually and directly impact Work on the then current and updated approved Construction Schedule. In submitting a request for an adjustment of Contract Time, and as a condition precedent to the District's review of that request, Contractor shall insert into the then current and updated approved Construction Schedule a "fragnet" analysis representing the event that Contractor claims to result in delay to the critical path as depicted in the updated approved Construction Schedule. If an Excusable Delay and a Compensable Delay occur concurrently, the maximum extension of the Contract Time shall be the number of days from the commencement of the first delay to the cessation of the delay that ends last. If an Unexcused Delay occurs concurrently with either an Excusable Delay or a Compensable Delay, the maximum extension of the Contract Time shall be the number of days, if any, which the Excusable Delay or the Compensable Delay exceeds the period of time of the Unexcused Delay.

16.2. Excusable and Compensable Delay(s)

16.2.1. Contractor is **not** entitled to additional compensation for any delay, even a delay caused by Adverse Weather or an Excusable Delay, unless **all** of the following conditions are met:

16.2.1.1. The District is responsible for the delay;

16.2.1.2. The delay is unreasonable under the circumstances involved and impacts the critical path of the Work and extends the most current Contract Completion date;

16.2.1.3. The delay was not within the contemplation of District and Contractor;

16.2.1.4. Contractor complies with the Change Order procedures, and if necessary, the Claims procedures of the Contract Documents;

16.2.1.5. The delay could not have been avoided or mitigated by the Contractor's care, prudence, foresight, and diligence;

16.2.1.6. The delay extends the most current Contract Completion date; and

16.2.1.7. The delay is not concurrent with a Contractor-caused delay or other type of Excusable Delay.

16.2.2. In accordance with California Public Contract Code section 7102, if the Contractor's progress is delayed by the events described in the preceding subsection, Contractor shall not be precluded from the recovery of damages directly and proximately resulting therefrom. In that event, Contractor's damages, if any, shall be limited to direct, actual and unavoidable additional costs of labor, materials or construction equipment directly resulting from that delay, and shall exclude special, indirect or consequential damages. In no event shall Contractor seek costs or damages for delays, interruptions, hindrances or disruptions to the Work for on-Site or off-Site costs or damages based upon formulas, e.g., Eichleay or other formula. Except as expressly provided for herein, Contractor shall not have any other claim, demand or right to adjustment of the Contract Price arising out of delay, interruption, hindrance or disruption to the progress of the Work. Adjustments to the Contract Price and the Contract Time, if any, on account of Changes to the Work or Suspension of the Work shall be governed by the applicable provisions of the Contract Documents, including without limitation, the "Changes in the Work" section and the percentages in the "Format for Proposed Change" section of these General Conditions.

16.3. Excusable and Non-Compensable Delay(s)

16.3.1. An "Excusable Delay" shall mean an interruption of the Work beyond the reasonable control of the Contractor and that:

16.3.1.1. Could have not been avoided by the Contractor exercising care, prudence, foresight, and diligence, and

16.3.1.2. Actually, extended the most current Project Completion date.

16.3.2. The Contractor may be entitled to an extension of the Project Completion date if there is an Excusable Delay, but the Contractor shall not be entitled to additional compensation for an Excusable Delay.

16.3.3. Force Majeure.

16.3.3.1. Excusable Delays are limited to interruptions that satisfy the above requirements and that are acts of God; acts of a public enemy; fires; floods; windstorms; tornadoes; earthquakes; wars; riots; insurrections; epidemics; quarantine restrictions; strikes; lockouts; fuel shortages; freight embargoes; and Adverse Weather that satisfies the requirements herein ("**Force Majeure Events**").

16.3.3.2. If an Infectious Disease impacts the progress of the Work and Contractor demonstrates that the event satisfies the conditions of the Contract Documents for an adjustment to the Contract Time, it will be considered a Force Majeure Event.

16.3.3.3. In addition to any other requirement of the Contract Documents, Contractor shall not be entitled to any adjustment to the Contract Time unless Contractor submits a PCO and the District has issued a Change Order pursuant to the "Changes in the Work" provisions herein. If the Parties cannot in good faith and reasonably agree to an increase in the Contract Time, the Parties agree that dispute will be resolved pursuant to the Claims Resolution Process herein

16.3.4. Contractor is aware that governmental agencies and utilities, including, without limitation, the Division of the State Architect, the Department of General Services, gas companies, electrical utility companies, water districts, and other agencies may have to approve Contractor-prepared drawings or approve a proposed installation. Contractor shall include in its bid, time for possible review of its

drawings and for reasonable delays and damages that may be caused by such agencies. Contractor is not entitled to make a claim for damages or delays or an Excusable Delay arising from the review of Contractor's drawings or other approvals from the Division of the State Architect, the Department of General Services, gas companies, electrical utility companies, water districts, and other agencies.

16.3.5. Neither the financial resources of the Contractor or any person or entity directly or indirectly engaged by the Contractor in performance of any portion of the Work shall be deemed conditions beyond the control of the Contractor. If an event of Excusable Delay occurs, the Contract Time shall be subject to adjustment hereunder only if the Contractor establishes: (i) full compliance with all applicable provisions of the Contract Documents relative to the method, manner and time for Contractor's notice and request for adjustment of the Contract Time; (ii) that the event(s) forming the basis for Contractor's request to adjust the Contract Time are outside the reasonable control and without any fault or neglect of the Contractor or any person or entity directly or indirectly engaged by Contractor in performance of any portion of the Work; and (iii) that the event(s) forming the basis for Contractor's request to adjust the Contract Time directly and adversely impacted the critical path of the Work as indicated in the approved Construction Schedule or the most recent updated approved Construction Schedule relative to the date(s) of the claimed event(s) of Excusable Delay.

16.3.6. Computation of Time / Adverse Weather

16.3.6.1. The Contractor will only be allowed a time extension for Adverse Weather conditions if requested by Contractor within five (5) calendar days of the Adverse Weather event, and only if all of the following conditions are met – thereby making the resulting delay an Excusable Delay.

16.3.6.1.1. The weather conditions constitute Adverse Weather, as defined herein and further specified in the Special Conditions;

16.3.6.1.2. Contractor can verify that the Adverse Weather caused delays in excess of five (5) hours of the indicated labor required to complete the scheduled tasks of Work on the day affected by the Adverse Weather;

16.3.6.1.3. The Contractor's crew is dismissed as a result of the Adverse Weather; and

16.3.6.1.4. The number of days of delay for the month exceed those indicated in the Special Conditions.

16.3.6.2. A day-for-day extension will only be allowed for those days in excess of those indicated in the Special Conditions.

16.3.6.3. The Contractor shall work seven (7) days per week, if necessary, irrespective of inclement weather, to maintain access and the Construction Schedule, and to protect the Work under construction from the effects of Adverse Weather, all at no further cost to the District.

16.3.6.4. The Contract Time has been determined with consideration given to the average climate weather conditions prevailing in the County in which the Project is located.

16.4. Unexcused Delay(s) – Liquidated Damages

16.4.1. Unexcused Delays refer to any delay to the progress of the Work caused by events or factors other than those specifically identified in the "Excusable and Compensable Delay(s)" or the "Excusable and Non-Compensable Delay(s)" sections above. Neither the Contract Price nor the Contract Time shall be adjusted on account of Unexcused Delays.

16.4.2. Contractor and District hereby agree that the exact amount of damages for failure to complete

the Work within the time specified is extremely difficult or impossible to determine. If the Work is not completed within the time specified in the Contract Documents, it is understood that the District will suffer damage. It being impractical and unfeasible to determine the amount of actual damage, it is agreed the Contractor shall forfeit and pay to District as fixed and liquidated damages, and not as a penalty, the amount set forth in the Agreement for each calendar day of delay in Completion. Contractor and its Surety shall be liable for the amount thereof pursuant to Government Code section 53069.85.

16.4.3. Contractor shall not forfeit or pay liquidated damages for an Excusable Delay or an Excusable and Compensable Delay.

17. CHANGES IN THE WORK

17.1. No Changes Without Authorization

17.1.1. There shall be no change whatsoever in the Drawings, Specifications, or in the Work without an executed Change Order, a written Unilateral Change Order, or a written Force Account Directive authorized by the District as herein provided. District shall not be liable for the cost of any extra work, any changes to the Contract Time, or any substitutions, changes, additions, omissions, or deviations from the Drawings and Specifications unless the District's governing board has authorized the same and the cost thereof has been approved in writing by an executed Change Order, a written Unilateral Change Order, or a written Force Account Directive.

17.1.2. Verbal Order of Change in the Work. Any verbal order, direction, instruction, interpretation, or determination from the District, the Project Inspector or the Architect which in the opinion of the Contractor causes any change to the scope of the Work, or otherwise requires an adjustment to the Contract Price or the Contract Time, shall be treated as a Change only if the Contractor gives the Architect written notice within three (3) Business Days of the order, directions, instructions, interpretation or determination and prior to acting in accordance therewith. Time is of the essence in Contractor's written notice pursuant to the preceding sentence so that the District can promptly investigate and consider alternative measures to address the order, direction, instruction, interpretation or determination giving rise to Contractor's notice. Accordingly, Contractor acknowledges that its failure, for any reason, to give written notice within three (3) Business Days of any verbal order, direction, instruction, interpretation or determination shall be deemed Contractor's waiver of any right to assert or claim any entitlement to an adjustment of the Contract Time or the Contract Price on account of that verbal order, direction, instruction, interpretation or determination. The written notice shall state the date, circumstances, extent of adjustment to the Contract Price or the Contract Time, if any, requested, and the source of the verbal order, directions, instructions, interpretation or determination that the Contractor regards as a Change. Unless the Contractor acts in strict accordance with this procedure, any verbal order, direction, instruction, interpretation or determination shall not be treated as a Change and the Contractor hereby waives any claim for any adjustment to the Contract Price or the Contract Time on account thereof.

17.1.3. The Surety, in executing and providing the Performance Bond and the Payment Bond, shall be deemed to have expressly agreed to any change to the Contract and to any extension of time made by reason thereof.

17.1.4. No extension of time for performance of the Work shall be allowed hereunder unless claim for such extension is made at the time changes in the Work are ordered, and such time duly adjusted in writing in the Change Order, Unilateral Change Order, or Force Account Directive. The provisions of the Contract Documents shall apply to all such changes, additions, and omissions with the same effect as if originally embodied in the Drawings and Specifications.

17.1.5. Contractor shall perform immediately all work that has been authorized by a fully executed Change Order, Unilateral Change Order, or Force Account Directive. Contractor shall be fully responsible for any and all delays and/or expenses caused by Contractor's failure to expeditiously perform this Work

and Contractor's failure or refusal to so proceed with that Work may be deemed to be Contractor's default of a material obligation of the Contractor under the Contract Documents.

17.1.6. Should any Change Order result in an increase in the Contract Price, the cost of that Change Order shall be agreed to, in writing, in advance by Contractor and District and be subject to the monetary limitations set forth in Public Contract Code section 20118.4. In the event that Contractor proceeds with any change in Work without a Change Order executed by the District, Unilateral Change Order, or Force Account Directive, Contractor waives any claim of additional compensation or time for that additional work.

17.1.7. Contractor understands, acknowledges, and agrees that the reason for District authorization is so that District may have an opportunity to analyze the Work and decide whether the District shall proceed with the Change Order or alter the Project so that a change in Work becomes unnecessary.

17.1.8. In an emergency affecting safety of life or of work or of adjoining property, Contractor, without special instruction or authorization, shall act, at its discretion, to prevent all threatened loss or injury. Any compensation or time claimed by Contractor on account of emergency work shall be determined as indicated herein as a PCO.

17.1.9. No payments will be made, nor will District accept proposed change orders until the Contractor has complied with all the requirements of the Escrow of Bid Documentation document (if applicable).

17.2. Architect Authority

The Architect will have authority to order minor changes in the Work not involving any adjustment in the Contract Price, or an extension of the Contract Time, or a change that is inconsistent with the intent of the Contract Documents. These changes shall be effected by written Change Order, Unilateral Change Order, or by Architect's response(s) to RFI(s).

17.3. Change Orders

17.3.1. A Change Order is a written instrument prepared and issued by the District and/or the Architect and signed by the District (as authorized by the District's governing board), the Contractor, the Architect, and approved by the Project Inspector (if necessary) and DSA (if necessary), stating their agreement regarding all of the following:

- 17.3.1.1.** A description of a change in the Work;
- 17.3.1.2.** The amount of the adjustment in the Contract Price, if any; and
- 17.3.1.3.** The extent of the adjustment in the Contract Time, if any.

17.3.2. If a Change Order is required to be approved by DSA, the District may call it a Construction Change Document.

17.3.3. If the District approves of a Change, the District or the Architect shall provide a written Change Order to the Contractor describing the Change and setting forth the adjustment to the Contract Time and the Contract Price, if any, on account of that Change. All Change Orders shall be full payment and final settlement of all rights for direct, indirect and consequential costs, including without limitation, costs of delays or impacts related to, or arising out of, items covered and affected by the Change Order, as well as any adjustments to the Contract Time. Any demand or request for an adjustment to the Contract Time or the Contract Price relating to any Change incorporated into a Change Order not presented by the Contractor for inclusion in the Change Order shall be deemed waived. The Contractor shall execute the Change Order prepared pursuant to the foregoing. After the Change Order has been prepared and

forwarded to the Contractor for execution, the Contractor shall not modify or amend the form or content of such Change Order, or any portion thereof.

17.3.4. Disputed Changes. In the event of any dispute or disagreement between the Contractor and the District regarding the characterization of any item as a Change to the Work or as to the appropriate adjustment of the Contract Price or the Contract Time on account thereof, the Contractor shall promptly proceed with the performance of such item of the Work, subject to a subsequent resolution of such dispute or disagreement in accordance with the terms of the Contract Documents. The Contractor's failure or refusal to so proceed with such Work may be deemed to be Contractor's default of a material obligation of the Contractor under the Contract Documents.

17.4. Unilateral Change Orders

17.4.1. A Unilateral Change Order is a written order prepared and issued by the District, the Construction Manager, and/or the Architect and signed by the District and the Architect, directing a change in the Work. The District may as be provided by law, by Unilateral Change Order and without invalidating the Contract, order changes in the Work consisting of additions, deletions, or other revisions. Any dispute as to the sum of the Unilateral Change Order or timing of payment shall be resolved pursuant to the Payment provisions and the Claims and Disputes provisions herein. **A Unilateral Change Order is NOT a Construction Change Document (which is defined above as a Change Order that DSA must approve).**

17.4.2. The District may issue a Unilateral Change Order in the absence of agreement on the terms of a Change Order.

17.5. Force Account Directives

17.5.1. When work, for which a definite price has not been agreed upon in advance, is to be paid for on a force account basis, all direct costs necessarily incurred and paid by the Contractor for labor, material, and equipment used in the performance of that Work, shall be subject to the approval of the District and compensation will be determined as set forth herein.

17.5.2. District will issue a Force Account Directive to proceed with the Work on a force account basis, and a not-to-exceed budget will be established by District.

17.5.3. All requirements regarding direct cost for labor, labor burden, material, equipment, and markups on direct costs for overhead and profit described in this section shall apply to Force Account Directives. However, District will only pay for actual costs verified in the field by the District or its authorized representative(s) on a daily basis.

17.5.4. Contractor shall be responsible for all cost related to the administration of Force Account Directive. The markup for overhead and profit for Contractor modifications shall be full compensation to the Contractor to administer Force Account Directive.

17.5.5. Contractor shall notify District or its authorized representative(s) at least twenty-four (24) hours prior to proceeding with any of the force account work. Furthermore, the Contractor shall notify the District when it has consumed eighty percent (80%) of the budget and shall not exceed the budget unless specifically authorized in writing by the District. Contractor will not be compensated for force account work in the event that Contractor fails to timely notify the District regarding the commencement of force account work or exceeding the force account budget.

17.5.6. Contractor shall diligently proceed with the work, and on a daily basis, submit a daily force account report on a form supplied by the District no later than 5:00 p.m. each day. The report shall contain a detailed itemization of the daily labor, material, and equipment used on the force account work

only. The names of the individuals performing the force account work shall be included on the daily force account reports. The type and model of equipment shall be identified and listed. District will review the information contained in the reports and sign the reports no later than the next workday and return a copy of the report to Contractor for its records. District will not sign, nor will Contractor receive compensation for work District cannot verify. Contractor will provide a weekly force account summary indicating the status of each Force Account Directive in terms of percent complete of the not-to-exceed budget and the estimated percent complete of the work.

17.5.7. In the event Contractor and District reach a written agreement on a set cost for the work while the work is proceeding based on a Force Account Directive, the Contractor's signed daily force account reports shall be discontinued, and all previously signed reports shall be invalid.

17.6. Price Request

17.6.1. Definition of Price Request. A Price Request ("PR") is a written request prepared by the Architect or the District, requesting the Contractor to submit to the District and the Architect an estimate of the effect of a proposed change in the Work on the Contract Price and the Contract Time.

17.6.2. Scope of Price Request. A Price Request shall contain adequate information, including any necessary Drawings and Specifications, to enable Contractor to provide the cost breakdowns required herein. Contractor shall not be entitled to any additional compensation for preparing a response to a Price Request, whether ultimately accepted or not.

17.6.3. Contractor shall not consider Price Requests to be instructions either to stop work in progress or to execute the proposed change.

17.6.4. Within the time specified in Price Request after receipt of Price Request, Contractor shall submit a quotation estimating cost adjustments to the Contract Price and the Contract Time necessary to execute the change, with the following documentation and information:

17.6.4.1. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.

17.6.4.2. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.

17.6.4.3. Include costs of labor and supervision directly attributable to the change.

17.6.4.4. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

17.7. Proposed Change Order

17.7.1. Proposed Change Order. The Contractor may issue a Proposed Change Order ("PCO"), only as a written request prepared by it to the District and the Architect, requesting that the District issue a Change Order based upon a proposed change to the Work.

17.7.2. Changes in Contract Price. A PCO shall include breakdowns pursuant to the provisions herein to validate any change in Contract Price and include all reasonable documentation as required herein.

17.7.3. Changes in Time. A PCO shall also include any changes in time required to complete the Project. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including,

but not limited to, changes in activity duration, start and finish times, and activity relationships. Use available total float before requesting an extension of the Contract Time. Any additional time requested shall not be the number of days to make the proposed change but must be based upon the impact to the Construction Schedule as defined in the Contract Documents. If Contractor fails to request a time extension in a PCO, then the Contractor is thereafter precluded from requesting time and/or claiming a delay. If the Contractor is requesting additional time and believes that time is both Excusable and Compensable, then the Contractor must provide detailed documentation that supports its position and that addresses all the components of the "Excusable and Compensable Delay(s)" section above.

17.7.4. Unknown and/or Unforeseen Conditions. If Contractor submits a PCO requesting an increase in Contract Price and/or Contract Time that is based at least partially on Contractor's assertion that Contractor has encountered unknown and/or unforeseen condition(s) on the Project, then Contractor shall base the PCO on provable information that, beyond a reasonable doubt and to the District's satisfaction, demonstrates that the unknown and/or unforeseen condition(s) were actually unknown and/or unforeseen and that the condition(s) were reasonably unknown and/or unforeseen. If not, the District shall deny the PCO, and the Contractor shall complete the Project without any increase in Contract Price and/or Contract Time based on that PCO.

17.7.5. Time to Submit PCO. Contractor shall submit its PCO within five (5) days of the date Contractor discovers, or reasonably should discover, the circumstances giving rise to the proposed change order, unless additional time to submit a proposed change order is granted in writing by the District. Time is of the essence in Contractor's written notice pursuant to the preceding sentence so that the District can promptly investigate and consider alternative measures to the address the basis for the PCI. Accordingly, Contractor acknowledges that its failure, for any reason, to give written notice (with Supporting Documentation to permit the District's review and evaluation) within this time frame shall be deemed Contractor's waiver, release, discharge and relinquishment of any right to assert or claim any entitlement to an adjustment of the Contract Time or the Contract Price on account of the circumstances giving rise to the PCO.

17.7.6. COVID-19. and other Infectious Disease(s).

17.7.6.1. Contractor agrees that its bid, the Contract Price and the Contract Time are based on the Contractor's full compliance with all applicable and existing federal, state, and/or local statutes, orders, rules, regulations, ordinances, and/or directives relating to construction site safety in connection with Infectious Disease(s) (as defined herein) including COVID-19, and/or any similar virus or derivative strain at the time of Contract award. Therefore, any cost or delay associated with Infectious Disease(s), or any derivative or similar strain thereof, or any federal, state, or local order relating thereto, shall not be considered compensable unless:

17.7.6.1.1. It occurred after the date of the award of the Contract to Contractor;

17.7.6.1.2. It materially increases the Contract Price or the Contract Time; and

17.7.6.1.3. Contractor notifies the District within 10 days of notice of any a new derivative, strain, or new public health order(s), including the anticipated increase to the Contract Price or Contract Time due to the new derivative, strain, or new public health order(s), and Contractor substantiates those costs with detailed supporting documentation as required for a PCO.

17.7.6.2. If, during the construction of the Project, the applicable and existing federal, state, and/or local statutes, orders, rules, regulations, ordinances, and/or directives relating to construction site safety in connection with Infectious Disease(s), and/or any similar virus or derivative strain, are changed or rescinded (e.g., by the reduction of potential exposure or risk due to vaccinations), the Parties agree to reduce the Contract Price and the Contract Time due to the removal of the required efforts. If the Parties cannot mutually agree on the appropriate reduction, the District may issue a

Unilateral Change Order for an amount of time and money it determines to be both reasonable and appropriate. The Parties agree that any dispute related to this provision will be resolved pursuant to the Claims Resolution Process herein.

17.8. Format for Proposed Change Order

17.8.1. The following “Format for Proposed Change for Subcontractor Performed Work” and “Format for Proposed Change for Contractor Performed Work” shall be used as applicable by the District and the Contractor (e.g., Change Orders, PCO’s) to communicate proposed additions and deductions to the Contract, supported by attached documentation.

FORMAT FOR PROPOSED CHANGE FOR SUBCONTRACTOR PERFORMED WORK

	<u>SUBCONTRACTOR PERFORMED WORK</u>	<u>ADD</u>	<u>DEDUCT</u>
(A)	<u>Labor Charge</u> 1. Hours. Attach total itemized hours. 2. Rate. This shall be no more than the Direct Labor Cost Total Hourly Rate as determined by the Department of Industrial Relations (“DIR”) for the applicable labor category. Specifically, base wage, vacation, work fees and other fringes inclusive of FICA, MEDI, FUTA, SUI CPT.		
(B)	<u>Labor Burden & Worker’s Compensation Charge</u> 1. This shall be no more than twenty percent (20%) of item (A) , the Labor Charge. 2. This shall be the total cumulative charge permitted for all Subcontractors or all labor performed by the Subcontractor or Subcontractor’s Subcontractor(s) (i.e., all “lower-tier” Subcontractor(s)). Specifically, Worker’s Compensation (WC), General Liability (GL), Automobile Liability (AL) and Excess Liability (EL).		
(C)	<u>Subtotal (A+B)</u>		
(D)	<u>Material Charge</u> Attach itemized quantity and unit cost plus sales tax and invoice(s) from vendor(s).		
(E)	<u>Equipment Charge</u> Attach invoice(s) from supplier(s).		
(F)	<u>Subtotal (C+D+E)</u>		
(G)	<u>Subcontractor’s Overhead and Profit Charge</u> 1. This shall be no more than eight percent (8%) of item (F) . 2. This shall be the total cumulative mark-up permitted for the Subcontractor and Subcontractor’s Subcontractor(s) (i.e., all “lower-tier” Subcontractor(s)).		
(H)	<u>Subtotal (F+G)</u>		
(I)	<u>Contractor’s Overhead, Profit, Bond and Insurance</u> 1. This shall be no more than six percent (6%) of Item (F) . 2. This shall be the total mark-up permitted for Contractor.		
(J)	<u>TOTAL (H+I)</u>		
(K)	<u>Time</u>	<u> </u> Days	

FORMAT FOR PROPOSED CHANGE FOR CONTRACTOR PERFORMED WORK

	<u>CONTRACTOR PERFORMED WORK</u>	<u>ADD</u>	<u>DEDUCT</u>
(A)	<u>Labor Charge</u> 1. Hours. Attach total itemized hours. 2. Rate. This shall be no more than the Direct Labor Cost Total Hourly Rate as determined by the Department of Industrial Relations ("DIR") for the applicable labor category. Specifically, base wage, vacation, work fees and other fringes inclusive of FICA, MEDI, FUTA, SUI CPT.		
(B)	<u>Labor Burden & Worker's Compensation Charge</u> 1. This shall be no more than twenty percent (20%) of item (A) , the Labor Charge. 2. This shall be the total cumulative charge permitted for all labor performed by Contractor. Specifically, Worker's Compensation (WC), General Liability (GL), Automobile Liability (AL) and Excess Liability (EL).		
(C)	<u>Subtotal (A+B)</u>		
(D)	<u>Material Charge</u> Attach itemized quantity and unit cost plus sales tax and invoice(s) from vendor(s).		
(E)	<u>Equipment Charge</u> Attach invoice(s) from supplier(s).		
(F)	<u>Subtotal (C+D+E)</u>		
(G)	<u>Contractor's Overhead, Profit, Bond and Insurance</u> 1. This shall be no more than six percent (6%) of Item (F) . 2. This shall be the total mark-up permitted for Contractor.		
(H)	<u>TOTAL (F+G)</u>		
(I)	<u>Time</u>	_____ Days	
(J)	<u>Contractor's Home Office Overhead</u> This shall be no more than \$200 times the number of days of item (I) (i.e., not to exceed \$200/day)		
(M)	<u>TOTAL (H + J)</u>		

17.8.2. All Proposed Change Order requests by Contractor for a change shall include a complete itemized breakdown with the following detail:

17.8.2.1. Labor. Labor breakdown by trade classification, wage rates, and estimated hours. Labor costs shall only include fringe benefits indicated by governing trade organizations. Wages shall not exceed current prevailing wages in the locality for performance of the changes.

17.8.2.1.1. The Contractor's or Subcontractors' labor burden and Workers' Compensation premium shall only be charged as indicated herein. In no event shall Contractor include any other charges than as indicated herein without the prior written approval of the District.

17.8.2.2. Material. Material quantities, and types of products, and transportation costs, if applicable.

17.8.2.3. Equipment. Equipment breakdown by make, type, size, rental rates (if not owned), equipment hours and transportation costs, if applicable.

17.8.2.3.1. The equipment costs shall not exceed one hundred percent (100%) of the Association of Equipment Distributors (AED) rental rates or Caltrans rates, whichever is less. Hourly, daily, weekly, or monthly rates shall be used, whichever is lower. Hourly rates including operator shall not be used.

17.8.2.3.2. The time to be paid for equipment shall be the actual time that the equipment is in productive operation on the Work or (2) idled as a result of the event or circumstance giving rise to the Proposed Change Order.

17.8.2.3.2.1. To calculate the costs of idle equipment, the Contractor must use the applicable idle equipment rate. For example, and clarification purposes only, if the rate for "X" piece of equipment is \$100 and the applicable delay factor is .20 for that piece of equipment, then the hourly rate for idle equipment shall be \$20 (\$100 x .20), which shall be applied against the number of hours idle. In no event shall Contractor charge an amount greater than 50% of the applicable equipment rate for idle equipment.

17.8.2.3.2.2. In computing the hourly rental of equipment, any time less than thirty (30) minutes shall be considered one-half (1/2) hour.

17.8.2.3.2.3. No payment will be made for time while equipment is inoperative due to breakdown, or for non-workdays.

17.8.2.3.2.4. The rental time shall not include the time required to move the equipment to and from the project site. No mobilization or demobilization will be allowed for equipment already on site. If equipment is not moved by its own power, then loading and transportation costs will be paid in lieu of rental time thereof. However, neither moving time nor loading and transportation costs will be paid if the equipment is used on the Project Site in any other way than upon the work directly related to the event or circumstance giving rise to the Proposed Change Order.

17.8.2.3.3. Individual pieces of equipment having a replacement value of one thousand dollars (\$1,000) or less shall be considered to be small tools or small equipment, and no payment will be made since the costs of these tools and equipment is included as part of the markup for overhead and profit defined herein.

17.8.2.3.4. Payment to the Contractor for the use of equipment as set forth above shall constitute full compensation to the Contractor for the cost of fuel, power, oil, lubricants,

supplies, small equipment, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, labor (except for equipment operators), and any and all costs to the Contractor incidental to the use of the equipment.

17.8.2.3.5. Should Contractor, or any of its owners, officers, directors or agents, hold any ownership interest in any company, organization, association or corporation from whom rental equipment is secured. Contractor shall immediately notify District of such and the price set for any such rental shall be agreed upon in advance by the Contractor and the District.

17.8.2.4. Overhead, Profit, Bond and Insurance Costs. Markup for overhead and profit, which shall be used to compensate Contractor for all costs for all administration, general conditions, and supervision, including, without limitation:

17.8.2.4.1. All home office overhead, field office overhead, field office personnel including, but not limited to, principals, project managers, superintendents, supervisory foremen, estimators, project engineers, detailers, draftsmen, schedulers, consultants, watchmen, payroll clerks, administrative assistants, labor compliance costs and secretaries.

17.8.2.4.2. All field and field office expenses including, but not limited to, field trailers, parking, storage sheds, office equipment and supplies, telephone service and long distance telephone calls, computers, fax machines, temporary utilities, sanitary facilities and services, janitorial services, small tools and equipment with a cost under \$1000 each, portable scaffolding, blocking, shores, appliances, job vehicles, security and fencing, conformance to regulatory requirements including compliance to safety regulations, safety programs and meetings, cartage, warranties, As-Built Drawings, as well as any related maintenance costs.

17.8.2.4.3. Administrative functions such as, but not limited to, reviewing, coordinating, distributing, processing, posting, recording, estimating, negotiating, expediting, engineering, drawing, detailing, revising shop drawings, carting, cleaning, protecting the work, and other incidental Work related to the change.

17.8.2.4.4. All other costs and taxes required to be paid, but not included under direct costs as defined above including, without limitation, payroll taxes, social security, etc.

17.8.2.4.5. All costs for Contractor's bonds and insurance.

17.8.2.4.6. Taxes: Federal excise tax shall not be included. District will issue an exemption on request.

17.8.2.5. Contract Time. Justification for any adjustment in Contract Time including a schedule analysis identifying critical schedule activities delayed by the request. Contract Time shall be extended or reduced by Change Orders, Unilateral Change Orders, or Force Account Directives for a period of time commensurate with the time reasonably necessary to perform a Change. This time must be requested in writing by the Contractor with the Price Request, PCO, or expressly in writing as part of its documentation for Unilateral Change Orders, or Force Account Directives. The Contractor shall justify any Contract Time extension by submittal of a schedule analysis as required in this Changes section of these General Conditions accurately portraying the impact of the change on the critical path of the Construction Schedule. Changes performed within available float shall not justify an extension to the Contract Time. The District shall make the final determination of the amount of Contract Time to allocate to any Change.

17.8.2.6. Supporting Documentation. Contractor shall include with each PCO, along with the itemized breakdown as required herein, reasonable documentation substantiating the requested change in the Contract Price and Contract Time. If the District deems Contractor's supporting

documentation incomplete or inadequate to substantiate the requested change to the Contract Price and Contract Time, the District may request that Contractor supplement the PCO with additional, reasonable supporting documentation.

17.9. Change Order Certification

17.9.1. All Change Orders and PCOs shall include the following certification by the Contractor. The Parties acknowledged that if a Change Order is approved that does not include this language, that Change Order shall be deemed to include this certification language:

The Contractor approves the foregoing as to the changes, if any, and the price specified for each item and the extension of time allowed, if any, for completion of the entire Work as stated herein, and agrees to furnish all labor, materials, and service, and perform all work necessary to complete all additional work specified for the consideration stated herein. Submission of sums that have no basis in fact or which Contractor knows are false are at the sole risk of Contractor and may be a violation of the False Claims Act set forth under Government Code section 12650 et seq. It is understood that the changes herein to the Contract shall only be effective when approved by the governing board of the District. It is expressly understood that the value of the extra Work or changes includes all of the Contractor's costs, expenses, field overhead, home office overhead, profit, both direct and indirect, resulting from additional time required on the Project or resulting from delay to the Project. Any costs, expenses, damages, or time extensions not included are deemed waived.

17.10. Determination of Change Order Cost

17.10.1. The amount of the increase or decrease in the Contract Price from a Change Order, if any, shall be determined in one or more of the following ways as applicable to a specific situation and at the District's discretion:

17.10.1.1. District acceptance of a PCO;

17.10.1.2. By agreement between District and Contractor.

17.10.1.3. By unit prices or alternates contained in Contractor's original bid. If the Bid for the Work included proposal(s) for Alternate Bid Item(s), during Contractor's performance of the Work, the District may elect to add any such Alternate Bid Item(s) if that item did not form a basis for award of the Contract or delete any such Alternate Bid Item(s) if that item formed a basis for award of the Contract. If the District elects to add or delete an Alternate Bid Item(s) pursuant to the foregoing, the cost or credit for that Alternate Bid Item(s) shall be as set forth in the Contractor's Bid, at the District's discretion. If any Alternate Bid Item is added or deleted from the Work pursuant to the foregoing, the Contract Time shall be adjusted by the number of days allocated for the added or deleted Alternate Bid Item in the Contract Documents; if days are not allocated for any Alternate Bid Item added or deleted pursuant to the foregoing, the Contract Time shall be equitably adjusted.

17.10.1.4. By the District, based upon actual and necessary costs incurred by the Contractor as determined by the District on the basis of the Contractor's records. Promptly upon determining the extent of adjustment to the Contract Price, the District shall notify the Contractor in writing of the same; the Contractor shall be deemed to have accepted the District's determination of the amount of adjustment to the Contract Price on account of a Change to the Work unless Contractor shall notify the District, in writing, not more than fifteen (15) days from the date of the District's written notice, of any objection to the District's determination. Failure of the Contractor to timely notify the District

of Contractor's objections to the District's determination of the extent of adjustment to the Contract Price shall be deemed Contractor's acceptance of the District's determination and a waiver of any right or basis of the Contractor to thereafter protest or otherwise object to the District's determination. Notwithstanding any objection of the Contractor to the District's determination of the extent of any adjustment to the Contract Price pursuant to this provision, Contractor shall diligently proceed to perform and complete any such Change.

17.11. Deductive Change Orders

If Contractor offers a proposed amount for a deductive Change Order(s), Contractor shall include a minimum of five percent (5%) total overhead and profit to be deducted with the amount of the work of the Change Order(s). If Subcontractor work is involved, Subcontractors shall also include a minimum of five percent (5%) overhead and profit to be deducted with the amount of its deducted work, for a total minimum of ten percent (10%) total overhead and profit to be deducted. Any deviation from this provision shall not be allowed.

17.12. Discounts, Rebates and Refunds

For purposes of determining the cost, if any, of any change, addition, or omission to the Work hereunder, all trade discounts, rebates, refunds, and all returns from the sale of surplus materials and equipment shall accrue and be credited to the Contractor, and the Contractor shall make provisions so that such discounts, rebates, refunds, and returns may be secured, and the amount thereof shall be allowed as a reduction of the Contractor's cost in determining the actual cost of construction for purposes of any change, addition, or omission in the Work as provided herein.

17.13. Accounting Records

With respect to portions of the Work performed by Change Orders, Unilateral Change Orders, or Force Account Directives, Contractor shall keep and maintain cost-accounting records satisfactory to the District, which shall be available to the District on the same terms as any other books and records Contractor is required to maintain pursuant to the Contract Documents.

17.14. Notice Required

If Contractor is seeking an adjustment in the Contract Price, or any extension in the Contract Time for Completion, it shall notify District pursuant to the provisions of the Contract Documents. No adjustment in the Contract Price or Contract Time shall be considered unless made in accordance with the Contract Documents. Contractor shall proceed to execute the Work even though the adjustment may not have been agreed upon. Any change in the Contract Price or extension of the Contract Time resulting from such contract adjustment shall only be authorized by a Change Order.

17.15. Applicability to Subcontractors

Any requirements under this Article shall be equally applicable to Change Orders, Unilateral Change Orders, or Force Account Directives issued to Subcontractors by the Contractor to the extent as required by the Contract Documents.

17.16. Alteration to Change Order Language

Contractor shall not alter Change Orders or reserve time in Change Orders. Contractor shall execute finalized Change Orders and proceed under the provisions herein with proper notice.

17.17. Failure of Contractor to Execute Change Order

Contractor shall be in default of the Contract if Contractor fails to execute a Change Order when the Contractor agrees with the addition and/or deletion of the Work in that Change Order.

18. REQUEST FOR INFORMATION

- 18.1.** Any Request for Information ("RFI") shall reference all applicable Contract Document(s), including Specification section(s), detail(s), page number(s), drawing number(s), and sheet number(s), etc. Contractor shall make suggestions and interpretations of the issue raised by each RFI. An RFI cannot modify the Contract Price, Contract Time, or the Contract Documents.
- 18.2.** Contractor shall be liable to the District for all costs incurred by the District associated with the processing, reviewing, evaluating and responding to any RFI, including without limitation, fees of the Architect and any other design consultant to the Architect or the District, that District reasonably determines:
- 18.2.1.** Does not reflect adequate or competent supervision or coordination by the Contractor or any Subcontractor; or
- 18.2.2.** Does not reflect the Contractor's adequate or competent knowledge of the requirements of the Work or the Contract; or
- 18.2.3.** Requests an interpretation or decision of a matter where the information sought is equally available to the Contractor; or
- 18.2.4.** Is not justified for any other reason.
- 18.3.** Prior to submitting the RFI, Contractor shall diligently review the Contract Documents for information responsive to the RFI, including information incorporated by reference. Contractor should not issue an RFI regarding information contained in or inferable from the Contract Documents, including information incorporated by reference. An RFI is invalid if the RFI response is contained in or inferable from the Contract Documents.
- 18.4.** Contractor shall be responsible for preparing and submitting each RFI so as to not cause delay to the progress of the Work nor to cause any impact to the Contractor's labor productivity. An RFI may be considered untimely if not submitted within **Forty-Eight (48) hours** of receipt from a Contractor's subcontractor. Untimely submission of any RFI will preclude Contractor from asserting any claims for delay or for labor impact against the District.
- 18.5.** If the Contractor fails to timely notify the Architect in writing of any Conditions encountered and the Contractor proceeds to perform any portion of the Work containing or affected by such Conditions the Contractor shall bear all costs associated with or required to correct, remove, or otherwise remedy any portion of the Work affected thereby without adjustment of the Contract Time or the Contract Price. In requesting information of the District to address and resolve any conditions, the Contractor shall act with promptness in submitting any written request so as to allow the District a reasonable period of time to review, evaluate and respond to any request, taking into account the then current status of the progress and completion of the Work and the actual or potential impact of any conditions upon the completion of the Work within the Contract Time. The Contract Time shall not be subject to adjustment in the event that the Contractor shall fail to timely request information from the District.

19. PAYMENTS

19.1. Contract Price

- 19.1.1.** The Contract Price is stated in the Agreement and, including authorized adjustments, is the total

amount payable by the District to the Contractor for performance of the Work pursuant to the Contract Documents.

19.2. Applications for Progress Payments

19.2.1. Procedure for Applications for Progress Payments

19.2.1.1. Application for Progress Payment

19.2.1.1.1. Not before the fifth (5th) day of each calendar month during the progress of the Work, Contractor shall submit to the District and the Architect an itemized Application for Payment for Work completed in accordance with the Schedule of Values. The Application for Payment shall be notarized, if required, and supported by the following or each portion thereof unless waived by the District in writing:

19.2.1.1.1.1. The amount paid to the date of the Application for Payment to the Contractor, to all its Subcontractors, and all others furnishing labor, material, or equipment for its Contract;

19.2.1.1.1.2. The amount being requested by the Application for Payment by the Contractor on its own behalf and separately stating the amount requested on behalf of each of the Subcontractors and all others furnishing labor, material, and equipment under the Contract;

19.2.1.1.1.3. The balance that will be due to each of the entities after payment is made;

19.2.1.1.1.4. A certification that the As-Built Drawings and annotated Specifications are current;

19.2.1.1.1.5. An Itemized breakdown of Work performed;

19.2.1.1.1.6. An updated and acceptable construction schedule in conformance with the provisions herein;

19.2.1.1.1.7. The additions to and subtractions from the Contract Price and Contract Time;

19.2.1.1.1.8. A total of the retention held;

19.2.1.1.1.9. The material invoices, evidence of equipment purchases, rentals, and other support and details of cost as the District may require from time to time;

19.2.1.1.1.10. The percentage of completion of the Contractor's Work by line item;

19.2.1.1.1.11. The Schedule of Values updated from the preceding Application for Payment;

19.2.1.1.1.12. A duly completed and executed conditional waiver and release upon progress payment compliant with Civil Code section 8132 from each subcontractor of any tier and supplier to be paid from the current progress payment;

19.2.1.1.1.13. A duly completed and executed unconditional waiver and release upon progress payment compliant with Civil Code section 8134 from each subcontractor of any tier and supplier that was paid from the previous progress payment; and

19.2.1.1.1.14. A certification by the Contractor of the following:

The Contractor warrants title to all Work performed as of the date of this payment application. The Contractor further warrants that all Work performed as of the date of this payment application is free and clear of liens, claims, security interests, or encumbrances in favor of the Contractor, Subcontractors, material and equipment suppliers, workers, or other persons or entities making a claim by reason of having provided labor, materials, and equipment relating to the Work, except those of which the District has been informed.

19.2.1.1.1.15. If requested by the District, a third party, or as required by the California Department of Industrial Relations, all requested or required certified payroll record ("CPR(s)") for each journeyman, apprentice, worker, or other employee employed by the Contractor and/or each Subcontractor in connection with the Work for the period of the Application for Payment.

19.2.1.1.2. Except as expressly provided for herein, no payments shall be made by the District on account of any item of the Work, including without limitation, materials or equipment that, at the time of the Contractor's submittal of an Application for Progress Payment, has/have not been incorporated into and made a part of the Work.

19.2.1.1.3. Contractor shall be subject to the False Claims Act set forth under Government Code section 12650 et seq., for information provided with any Application for Progress Payment.

19.2.2. Prerequisites for Progress Payments

19.2.2.1. First Payment Request: The following items, if applicable, must be completed before District will accept and/or process Contractor's first payment request:

- 19.2.2.1.1.** Installation of the Project sign;
- 19.2.2.1.2.** Installation of field office;
- 19.2.2.1.3.** Installation of temporary facilities and fencing;
- 19.2.2.1.4.** Schedule of Values;
- 19.2.2.1.5.** Contractor's Construction Schedule;
- 19.2.2.1.6.** Schedule of unit prices, if applicable;
- 19.2.2.1.7.** Submittal Schedule;
- 19.2.2.1.8.** Receipt by Architect of all submittals due as of the date of the payment application;
- 19.2.2.1.9.** Copies of necessary permits;
- 19.2.2.1.10.** Copies of authorizations and licenses from governing authorities;
- 19.2.2.1.11.** Initial progress report;
- 19.2.2.1.12.** Surveyor qualifications;

- 19.2.2.1.13.** Written acceptance of District's survey of rough grading, if applicable;
- 19.2.2.1.14.** List of all Subcontractors, with names, license numbers, telephone numbers, and Scope of Work;
- 19.2.2.1.15.** All bonds and insurance endorsements; and
- 19.2.2.1.16.** Resumes of Contractor's project manager, and if applicable, job site secretary, record documents recorder, and job site superintendent.
- 19.2.2.1.17.** All payment applications will be due by the 20th of each month for appropriate and timely processing.

19.2.2.2. Second Payment Request: District will not process the second payment request until and unless all submittals and Shop Drawings have been accepted for review by the Architect.

19.2.2.3. No Waiver of Criteria: Any payment made to Contractor where criteria set forth herein have not been met shall not constitute a waiver of said criteria by District. The approval of any Application for Progress Payment or the disbursement of any Progress Payment to the Contractor shall not be deemed nor constitute acceptance of defective Work or Work not in conformity with the Contract Documents. Instead, such payment shall be construed as a good faith effort by District to resolve differences so Contractor may pay its Subcontractors and suppliers. Contractor agrees that failure to submit such items may constitute a material breach of the Contract by Contractor and may subject Contractor to termination.

19.3. Progress Payments

19.3.1. District's Approval of Application for Payment

19.3.1.1. Upon receipt of an Application for Payment, District shall act in accordance with the following:

19.3.1.1.1. Each Application for Payment shall be reviewed by the District as soon as practicable after receipt for the purpose of determining that the Application for Payment is a proper Application for Payment.

19.3.1.1.2. Any Application for Payment determined not to be a proper Application for Payment suitable for payment shall be returned to the Contractor as soon as practicable, but not later than seven (7) days, after receipt. An Application for Payment returned pursuant to this paragraph shall be accompanied by a document setting forth in writing the reasons why the Application for Payment is not proper. The number of days available to the District to make a payment without being subject to any applicable statute regarding prompt payment or interest accrual, shall be reduced by the number of days by which the District exceeds this seven-day return requirement.

19.3.1.1.3. An approved Application for Payment shall be considered payable if funds are available for payment after the deduction of amounts allowed by law and/or pursuant to the section herein entitled "Decisions to Withhold Payment,"

19.3.1.2. The District's review of the Contractor's Application for Payment will be based on the District's and the Architect's observations at the Site and the data comprising the Application for Payment that the Work has progressed to the point indicated and that, to the best of the District's and the Architect's knowledge, information, and belief, the quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to:

19.3.1.2.1. Observation of the Work for general conformance with the Contract Documents,

19.3.1.2.2. Results of subsequent tests and inspections,

19.3.1.2.3. Minor deviations from the Contract Documents correctable prior to Completion, and

19.3.1.2.4. Specific qualifications expressed by the Architect.

19.3.1.3. District's approval of each Application for Payment shall be based on Contractor complying with all requirements for a fully complete and valid Application for Payment.

19.3.2. Payments to Contractor

19.3.2.1. Within thirty (30) days after District's receipt of each undisputed and properly submitted Application for Payment, Contractor shall be paid a sum equal to ninety-five percent (95%) of the value of the Work performed (as verified by Architect and Inspector and certified by Contractor) up to the last day of the previous month, less the aggregate of previous payments and amount to be withheld. The value of the Work completed shall be Contractor's best estimate. No inaccuracy or error in Contractor's estimate shall operate to release the Contractor, or any Surety upon any bond, from damages arising from such Work, or from the District's right to enforce each and every provision of this Contract, and the District shall have the right subsequently to correct any error made in any estimate for payment.

19.3.2.2. District shall withhold five percent (5%) retention from all Progress Payments.

19.3.2.3. District may withhold ten percent (10%) retention from all Progress Payments pursuant to Public Contract Code section 7201 if the Project is determined to be "substantially complex."

19.3.2.4. The Contractor shall not be entitled to have any payment requests processed or be entitled to have any payment made for Work performed, so long as any lawful or proper direction given by the District concerning the Work, or any portion thereof, remains incomplete.

19.3.2.5. In accordance with Public Contract Code §20104.50, in the event that the District shall fail to make any Progress Payment within thirty (30) days after receipt of an undisputed and properly submitted Application for Progress Payment, the District shall pay the Contractor interest on the undisputed amount of such Application for Progress Payment equal to the legal rate of interest set forth in California Code of Civil Procedure §685.010(a).

19.3.3. No Waiver

No payment by District hereunder shall be interpreted so as to imply that District has inspected, approved, or accepted any part of the Work. Notwithstanding any payment, the District may enforce each and every provision of this Contract. The District may correct or require correction of any error subsequent to any payment.

19.3.4. Warranty of Title

19.3.4.1. If a lien or a claim based on a stop notice or stop payment notice of any nature should at any time be filed against the Work or any District property, by any entity that has supplied material or services at the request of the Contractor, Contractor and Contractor's Surety shall promptly, on demand by District and at Contractor's and Surety's own expense, take any and all action necessary to cause any such lien or a claim based on a stop notice or stop payment notice to be released or

discharged immediately therefrom.

19.3.4.2. If the Contractor fails to furnish to the District within ten (10) calendar days after demand by the District, satisfactory evidence that a lien or a claim based on a stop notice or stop payment notice has been so released, discharged, or secured, the District may discharge such indebtedness and deduct the amount required therefore, together with any and all losses, costs, damages, and attorney's fees and expense incurred or suffered by District from any sum payable to Contractor pursuant to the Contract.

19.4. Decisions to Withhold Payment

19.4.1. Reasons to Withhold Payment

District may withhold payment in whole, or in part, to the extent reasonably necessary to protect the District if, in the District's opinion, the representations to the District required herein cannot be made. District may withhold payment, in whole, or in part, to such extent as may be necessary to protect the District from loss because of, but not limited to:

19.4.1.1. Defective Work not remedied within **FORTY-EIGHT (48)** hours of written notice to Contractor;

19.4.1.2. Stop notices, stop payment notices or other liens served upon the District as a result of the Contract;

19.4.1.3. Liquidated damages assessed against the Contractor;

19.4.1.4. The cost to complete the Work if there exists reasonable doubt that the Work can be completed for the unpaid balance of the Contract Price or by the Completion Date;

19.4.1.5. Damage to the District or other contractor(s);

19.4.1.6. Unsatisfactory performance of the Work by Contractor;

19.4.1.7. Failure to store and properly secure materials;

19.4.1.8. Failure of the Contractor to submit, on a timely basis, proper, sufficient, and acceptable documentation required by the Contract Documents, including, without limitation, a Construction Schedule, Schedule of Submittals, Schedule of Values, Monthly Progress Schedules, Shop Drawings, Product Data and samples, Proposed product lists, executed Change Orders, and/or verified reports;

19.4.1.9. Failure of the Contractor to maintain As-Built Drawings;

19.4.1.10. Erroneous estimates by the Contractor of the value of the Work performed, or other false statements in an Application for Payment;

19.4.1.11. Unauthorized deviations from the Contract Documents;

19.4.1.12. Failure of the Contractor to perform the Work in a timely manner in compliance with the Construction Schedule, established progress schedules, and/or completion dates;

19.4.1.13. If requested by the District, or the failure to provide to the DIR, certified payroll records acceptable to the District and the DIR for each journeyman, apprentice, worker, or other employee employed by the Contractor and/or each Subcontractor in connection with the Work for the period of the Application for Payment;

19.4.1.14. Failure to properly pay prevailing wages as defined in Labor Code sections 1720 et seq. and/or failure to comply with any other Labor Code requirements;

19.4.1.15. Failure to properly maintain or clean up the Site;

19.4.1.16. Failure to timely indemnify, defend or hold harmless the District;

19.4.1.17. Any payments due to the District, including but not limited to payments for failed tests, utilities changes, or permits;

19.4.1.18. Failure to pay Subcontractor(s) or supplier(s) as required by law and by the Contract Documents;

19.4.1.19. Failure to pay any royalty, license or similar fees;

19.4.1.20. Failure of the Contractor to submit on a timely basis all Closeout Documentation in a manner and form that is proper, sufficient, and reasonably acceptable to the District, and to not cause a delay in the Completion or approval of the Project; or

19.4.1.21. Failure to perform any implementation and/or monitoring required by any SWPPP for the Project and/or the imposition of any penalties or fines imposed therefore against Contractor or District.

19.4.1.22. Payment is delayed due to an audit inquiry by the State, the County Office of Education, the County, or any entity with jurisdiction related to the Project.

19.4.1.23. Contractor is otherwise in breach, default or in substantial violation of any provision of the Contract;

19.4.2. Reallocation of Withheld Amounts

19.4.2.1. District may, in its discretion, apply any withheld amount to pay outstanding claims or obligations as defined herein. In so doing, District shall make such payments on behalf of Contractor. If any payment is so made by District, then that amount shall be considered a payment made pursuant to the Contract and District shall not be liable to Contractor for any payment made in good faith. These payments may be made without prior judicial determination of claim or obligation. District will render Contractor an accounting of funds disbursed on behalf of Contractor.

19.4.2.2. If Contractor defaults or neglects to perform the Work in accordance with the Contract Documents or fails to perform any provision thereof, District may, after **FORTY-EIGHT (48)** hours written notice to the Contractor and, without prejudice to any other remedy, make good such deficiencies. District shall adjust the total Contract Price by reducing the amount thereof by the cost of making good such deficiencies. If District deems it inexpedient to correct Work that is damaged, defective, or not done in accordance with Contract provisions, an equitable reduction in the Contract Price (of at least one hundred twenty-five percent (125%) of the estimated reasonable value of the nonconforming Work) shall be made therefor.

19.4.3. Payment After Cure

When Contractor cures the grounds for declining approval, payment shall be made for amounts so withheld. No interest shall be paid on any retention or amounts withheld due to the failure of the Contractor to perform in accordance with the terms and conditions of the Contract Documents.

19.5. Subcontractor Payments

19.5.1. Payments to Subcontractors. No later than seven (7) days after receipt, or pursuant to Business and Professions Code section 7108.5 and Public Contract Code section 7107, the Contractor shall pay to each Subcontractor, out of the amount paid to the Contractor on account of such Subcontractor's portion of the Work, the amount to which said Subcontractor is entitled. Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to its Sub-subcontractors in a similar manner.

19.5.2. No Obligation of District for Subcontractor Payment. District shall have no obligation to pay, or to see to the payment of, money to a Subcontractor except as may otherwise be required by law.

19.5.3. Joint Checks. District shall have the right in its sole discretion, if necessary, for the protection of the District, to issue joint checks made payable to the Contractor and Subcontractors and material or equipment suppliers. The joint check payees shall be responsible for the allocation and disbursement of funds included as part of any such joint payment. In no event shall any joint check payment be construed to create any contract between the District and a Subcontractor of any tier, any obligation from the District to such Subcontractor, or rights in such Subcontractor against the District.

20. COMPLETION OF THE WORK

20.1. Completion

20.1.1. The Project may only be accepted by action of the governing board of the District.

20.1.2. District shall accept the Project and may have a Notice of Completion recorded when Project Completion has been achieved in accordance with the Contract Documents and to the satisfaction of District. For purposes of the payment of Retention, Completion is defined in Public Contract Code section 7107. For purposes of the timely filing of Stop Payment Notices, Completion is defined in California Civil Code section 9200, et seq.

20.1.3. Although there is no "substantial completion" for this Project, the District, at its sole option, may accept the Project and record a Notice of Completion when Project Completion has been completed to the satisfaction of District, except for minor corrective items, as distinguished from incomplete items. If Contractor fails to complete all minor corrective items within thirty-five (35) days after the date of the District's acceptance of the Project, District shall withhold from the final payment one hundred fifty percent (150%) of an estimate of the amount sufficient to complete the corrective items, as determined by District, until the item(s) are completed.

20.1.4. At the end of the thirty-five (35) day period, if there are any items remaining to be corrected, District may elect to proceed as provided herein related to adjustments to Contract Price, and/or District's right to perform the Work of the Contractor.

20.2. Closeout Procedures

20.2.1. Punch List

Contractor shall notify the Architect when Contractor considers the Work complete. Upon notification, Architect will prepare a list of minor items to be completed or corrected ("Punch List"). Contractor and/or its Subcontractors shall proceed promptly to complete and correct items on the Punch List. Failure to include an item on Punch List does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

20.2.2. Closeout Requirements

20.2.2.1. Utility Connections

Buildings shall be connected to water, gas, sewer, and electric services, complete and ready for use. Service connections shall be made, and existing services reconnected.

20.2.2.2. As-Built Drawings

20.2.2.2.1. In addition to its requirement to provide monthly As-Built Drawings to the District, the Contractor shall provide a final set of As-Built Drawings, sometimes referred to as "Record Drawings," showing all of the Work as actually constructed upon Completion of the Project as indicated in the Specifications.

20.2.2.2.2. Contractor is liable and responsible for any and all inaccuracies in the As-Built Drawings, even if inaccuracies become evident at a future date.

20.2.2.2.3. Upon Completion of the Work and as a condition precedent to approval of final payment, Contractor shall obtain the Inspector's approval of the final set of As-Built Drawings.

20.2.2.3. Operations & Maintenance Manuals: Contractor shall prepare all operation and maintenance manuals and date as indicated in the Specifications.

20.2.2.4. Closeout Documentation: Contractor shall provide all Closeout Documentation, which shall include the following, without limitation:

20.2.2.4.1. A full set of final As-Built Drawings, as further defined herein.

20.2.2.4.2. All Operations & Maintenance Manuals and information, as further defined herein.

20.2.2.4.3. All Warranties, as further defined herein.

20.2.2.4.4. Verified report(s) for all scope(s) of work (DSA 6-C, Rev 03/22/13, or more recent revision if available).

20.3. Final Inspection

20.3.1. Contractor shall comply with Punch List procedures as provided herein and maintain the presence of a Project Superintendent and Project Manager until the Punch List is complete to ensure proper and timely completion of the Punch List. Under no circumstances shall Contractor demobilize its forces prior to completion of the Punch List. Upon receipt of Contractor's written notice that all of the Punch List items have been fully completed and the Work is ready for final inspection and acceptance, Architect and Project Inspector will inspect the Work and shall submit to Contractor and District a final inspection report noting the Work, if any, required in order to complete in accordance with the Contract Documents. Absent unusual circumstances, this report shall consist of the Punch List items not yet satisfactorily completed.

20.3.2. Upon Contractor's completion of all items on the Punch List and any other uncompleted portions of the Work, the Contractor shall notify the District and Architect, who shall again inspect such Work. If the Architect finds the Work complete and acceptable under the Contract Documents, the Architect will notify Contractor, who shall then jointly submit to the Architect and the District its final Application for Payment.

20.3.3. Final Inspection Requirements

20.3.3.1. Before calling for final inspection, Contractor shall determine that the following have been performed:

- 20.3.3.1.1.** The Work has been completed.
- 20.3.3.1.2.** All life safety items are completed and in working order.
- 20.3.3.1.3.** Mechanical and electrical Work are complete and tested, fixtures are in place, connected, and ready for tryout.
- 20.3.3.1.4.** Electrical circuits scheduled in panels and disconnect switches labeled.
- 20.3.3.1.5.** Painting and special finishes complete.
- 20.3.3.1.6.** Doors complete with hardware, cleaned of protective film, relieved of sticking or binding, and in working order.
- 20.3.3.1.7.** Tops and bottoms of doors sealed.
- 20.3.3.1.8.** Floors waxed and polished as specified.
- 20.3.3.1.9.** Broken glass replaced and glass cleaned.
- 20.3.3.1.10.** Grounds cleared of Contractor's equipment, raked clean of debris, and trash removed from Site.
- 20.3.3.1.11.** Work cleaned, free of stains, scratches, and other foreign matter, of damaged and broken material replaced.
- 20.3.3.1.12.** Finished and decorative work shall have marks, dirt, and superfluous labels removed.
- 20.3.3.1.13.** Final cleanup, as provided herein.

20.4. Costs of Multiple Inspections

More than two (2) requests of the District to make a final inspection shall be considered an additional service of District, Architect, Construction Manager, and/or Project Inspector, and all subsequent costs will be invoiced to Contractor and if funds are available, withheld from remaining payments.

20.5. Partial Occupancy or Use Prior to Completion

20.5.1. District's Rights to Occupancy. The District may occupy or use any completed or partially completed portion of the Work at any stage. Neither the District's Final Acceptance, the making of Final Payment, any provision in Contract Documents, nor the use or occupancy of the Work, in whole or in part, by District shall constitute acceptance of Work not in accordance with the Contract Documents nor relieve the Contractor or the Contractor's Performance Bond Surety from liability with respect to any warranties or responsibility for faulty or defective Work or materials, equipment and workmanship incorporated therein. The District and the Contractor shall agree in writing to the responsibilities assigned to each of them for payments, security, maintenance, heat, utilities, damage to the Work, insurance, the period for correction of the Work, and the commencement of warranties required by the Contract Documents. Any dispute as to responsibilities shall be resolved pursuant to the Claims and Disputes provisions herein, with the added provision that during the dispute process, the District shall have the right to occupy or use any portion of the Work that it needs or desires to use.

20.5.2. Inspection Prior to Occupancy or Use. Immediately prior to partial occupancy or use, the District, the Contractor, and the Architect shall jointly inspect the area to be occupied or portion of the Work to be

used in order to determine and record the condition of the Work.

20.5.3. No Waiver. Unless otherwise agreed upon, partial or entire occupancy or use of a portion or portions of the Work shall not constitute beneficial occupancy or acceptance of the Work not complying with the requirements of the Contract Documents.

21. FINAL PAYMENT AND RETENTION

21.1. Final Payment

21.1.1. Upon receipt and approval of a valid and final Application for Payment, the Architect will issue a final Certificate of Payment or similar document indicating Architect's agreement that the Project has reached Completion. The District shall thereupon jointly inspect the Work and either accept the Work as complete or notify the Architect and the Contractor in writing of reasons why the Work has not reached Completion to the satisfaction of the District.

21.1.2. Upon acceptance of the Work of the Contractor as having reached Completion to the satisfaction of the District (that, absent unusual circumstances, will occur when the Punch List items have been satisfactorily completed), the District may record a Notice of Completion with the County Recorder, and the Contractor shall, upon receipt of final payment from the District, pay all the amount(s) due to its Subcontractors.

21.2. Prerequisites for Final Payment

The following conditions must be fulfilled prior to Final Payment:

21.2.1. A full and final waiver or release of all stop notices and stop payment notices in connection with the Work shall be submitted by Contractor, including a release of stop notice or stop payment notice in recordable form, together with (to the extent permitted by law) a copy of the full and final release of all stop notices or stop payment notice rights.

21.2.2. A duly completed and executed conditional waiver and release upon final payment compliant with Civil Code section 8136 from each subcontractor of any tier and supplier to be paid from the current progress payment;

21.2.3. A duly completed and executed unconditional waiver and release upon final payment compliant with Civil Code section 8138 from each subcontractor of any tier and supplier that was paid from the previous progress payment; and

21.2.4. Contractor shall have made all corrections to the Work that are required to remedy any defects therein, to obtain compliance with the Contract Documents or any requirements of applicable codes and ordinances, or to fulfill any of the orders or directions of District required under the Contract Documents.

21.2.5. Each Subcontractor shall have delivered to the Contractor all written guarantees, warranties, applications, and bonds required by the Contract Documents for its portion of the Work.

21.2.6. Contractor must have completed all requirements set forth under "Closeout Procedures," including, without limitation, submission of an approved set of complete Record Drawings.

21.2.7. Architect shall have issued its written approval that final payment can be made.

21.2.8. Contractor shall have delivered to the District all manuals and materials required by the Contract Documents.

21.2.9. Contractor shall have completed final clean up as provided herein.

21.3. Retention

21.3.1. The retention, less any amounts disputed by the District or that the District has the right to withhold pursuant to provisions herein, shall be paid:

21.3.1.1. After approval of the District by the Architect's Certificate of Payment;

21.3.1.2. After the satisfaction of the conditions set forth herein;

21.3.1.3. Within sixty (60) days after Completion;

21.3.1.4. No earlier than thirty-five (35) days of the recording of the Notice of Completion by District, if a Notice of Completion is recorded by the District.

21.3.2. No interest shall be paid on any retention, or on any amounts withheld due to a failure of the Contractor to perform, in accordance with the terms and conditions of the Contract Documents, except as provided to the contrary in any Escrow Agreement between the District and the Contractor pursuant to Public Contract Code section 22300.

21.4. Substitution of Securities

The District will permit the substitution of securities in accordance with the provisions of Public Contract Code section 22300.

21.5. Claims Asserted After Final Payment

Any lien, stop payment notice or other claim filed or asserted after the Contractor's acceptance of the Final Payment by any Subcontractor, of any tier, laborer, Material Supplier or others in connection with or for Work performed under the Contract Documents shall be the sole and exclusive responsibility of the Contractor pursuant to the indemnification obligations of the Contract Documents. In the event any lien, stop payment notice or other claim of any Subcontractor, Laborer, Material Supplier or others performing Work under the Contract Documents remain unsatisfied after Final Payment is made, Contractor shall refund to District all monies that the District may pay or be compelled to pay in discharging any lien, stop payment notice or other claim, including, without limitation all costs and reasonable attorneys' fees incurred by District in connection therewith.

22. UNCOVERING WORK, CORRECTION OF WORK AND RIGHT TO TAKEOVER WORK

22.1. Uncovering of Work

If a portion of the Work is covered without Project Inspector or Architect approval or not in compliance with the Contract Documents, it must, if required in writing by the District, the Project Inspector, or the Architect, be uncovered for the Project Inspector's or the Architect's observation and be replaced at the Contractor's expense without change in the Contract Price or Contract Time.

22.2. Rejection of Work

Prior to the District's Acceptance of the Work, any Work or materials or equipment forming a part of the Work or incorporated into the Work that is defective or not in conformity with the Contract Documents may be rejected by the District, the Architect or the Project Inspector and the Contractor shall correct all rejected Work without any adjustment to the Contract Price or the Contract Time, even if the Work, materials or equipment have been previously inspected by the Architect or the Project Inspector or even

if they failed to observe the defective or non-conforming Work, materials or equipment.

22.3. Nonconforming Work

22.3.1. Contractor shall promptly remove from Premises all Work identified by District as failing to conform to the Contract Documents whether incorporated or not. Contractor shall promptly replace and re-execute its own Work to comply with the Contract Documents without additional expense to the District and shall bear the expense of making good all work of other contractors destroyed or damaged by any removal or replacement pursuant hereto and/or any delays to the District or other Contractors caused thereby.

22.3.2. If Contractor does not remove Work that District has identified as failing to conform to the Contract Documents within a reasonable time, not to exceed **FORTY-EIGHT (48)** hours, District may remove it and may store any material at Contractor's expense. If Contractor does not pay expense(s) of that removal within ten (10) days' time thereafter, District may, upon ten (10) days' written notice, sell any material at auction or at private sale and shall deduct all costs and expenses incurred by the District and/or District may withhold those amounts from payment(s) to Contractor.

22.4. Correction of Work

22.4.1. Correction of Rejected Work. Pursuant to the notice provisions herein, the Contractor shall promptly correct the Work rejected by the District, the Architect, or the Project Inspector as failing to conform to the requirements of the Contract Documents, whether observed before or after Completion and whether or not fabricated, installed, or completed. The Contractor shall bear costs of correcting the rejected Work, including additional testing, inspections, and compensation for the Inspector's or the Architect's services and expenses made necessary thereby.

22.4.2. Two -Year Warranty Corrections. If, within two (2) years after the date of Completion of the Work or a designated portion thereof, or after the date for commencement of warranties established hereunder, or by the terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the District to do so. This period of two (2) years shall be extended with respect to portions of the Work first performed after Completion by the period of time between Completion and the actual performance of the Work. This obligation hereunder shall survive acceptance of the Work under the Contract and termination of the Contract. The District shall give such notice promptly after discovery of the condition.

22.5. District's Right to Takeover Work

22.5.1. If the Contractor should neglect to prosecute the Work properly or fail to perform any provisions of this Contract, the District, after **FORTY-EIGHT (48)** hours written notice to the Contractor, may, without prejudice to any other remedy it may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor.

22.5.2. If it is found at any time, before or after Completion of the Work, that Contractor has varied from the Drawings and/or Specifications, including, but not limited to, variation in material, quality, form, or finish, or in the amount or value of the materials and labor used, District may require at its option:

22.5.2.1. That all such improper Work be removed, remade or replaced, and all work disturbed by these changes be made good by Contractor at no additional cost to the District;

22.5.2.2. That the District deduct from any amount due Contractor the sum of money equivalent to the difference in value between the work performed and that called for by the Drawings and Specifications; or

22.5.2.3. That the District exercise any other remedy it may have at law or under the Contract Documents, including but not limited to the District hiring its own forces or another contractor to replace the Contractor's nonconforming Work, in which case the District shall either issue a deductive Change Order, a Unilateral Change Order, or invoice the Contractor for the cost of that work. Contractor shall pay any invoices within thirty (30) days of receipt of same or District may withhold those amounts from payment(s) to Contractor.

22.5.3. Acceptance of Defective or Non-Conforming Work. The District may, in its sole and exclusive discretion, elect to accept Work that is defective or that is not in accordance with the requirements of the Contract Documents, instead of requiring its removal and correction, in which case the Contract Price shall be reduced as appropriate and equitable.

23. TERMINATION AND SUSPENSION

23.1. District's Right to Terminate Contractor for Cause

23.1.1. Grounds for Termination. The District, in its sole discretion, may terminate the Contract and/or terminate the Contractor's right to perform the work of the Contract based upon the following:

23.1.1.1. Contractor refuses or fails to execute the Work or any separable part thereof with sufficient diligence as will ensure its completion within the time specified or any extension thereof, or

23.1.1.2. Contractor fails to complete said Work within the time specified or any extension thereof, or

23.1.1.3. Contractor persistently fails or refused to perform Work or provide material of sufficient quality as to be in compliance with Contract Documents; or

23.1.1.4. Contractor files a petition for relief as a debtor, or a petition is filed against the Contractor without its consent, and the petition not dismissed within sixty (60) days; or

23.1.1.5. Contractor makes a general assignment for the benefit of its creditors, or a receiver is appointed on account of its insolvency; or

23.1.1.6. Contractor persistently or repeatedly refuses fails, except in cases for which extension of time is provided, to supply enough properly skilled workers or proper materials to complete the Work in the time specified; or

23.1.1.7. Contractor fails to make prompt payment to Subcontractors, or for material, or for labor; or

23.1.1.8. Contractor persistently disregards laws, or ordinances, or instructions of District; or

23.1.1.9. Contractor fails to supply labor, including that of Subcontractors, that can work in harmony with all other elements of labor employed or to be employed on the Work; or

23.1.1.10. Contractor or its Subcontractor(s) is/are otherwise in breach, default, or in substantial violation of any provision of this Contract.

23.1.2. Notification of Termination

23.1.2.1. Upon the occurrence at District's sole determination of any of the above conditions, District may, without prejudice to any other right or remedy, serve written notice upon Contractor and its Surety of District's termination of this Contract and/or the Contractor's right to perform the

work of the Contract. This notice will contain the reasons for termination. Unless, within three (3) days after the service of the notice, any and all condition(s) shall cease, and any and all violation(s) shall cease, or arrangement satisfactory to District for the correction of the condition(s) and/or violation(s) be made, this Contract and/or the Contractor's right to perform the Work shall cease and terminate. Upon termination, Contractor shall not be entitled to receive any further payment until the entire Work is finished.

23.1.2.2. Upon termination, District may immediately serve written notice of tender upon Surety whereby Surety shall have the right to takeover and perform this Contract only if Surety:

23.1.2.2.1. Within three (3) days after service upon it of the notice of tender, gives District written notice of Surety's intention to takeover and perform this Contract; and

23.1.2.2.2. Commences performance of the Contract within seven (7) days from date of serving of its notice to District.

23.1.2.3. If Surety fails to notify District or begin performance as indicated herein, District may take over the Work and execute the Work to completion by any method it may deem advisable at the expense of Contractor and/or its Surety. Contractor and/or its Surety shall be liable to District for any excess cost or other damages the District incurs thereby. Time is of the essence in the Contract. If the District takes over the Work as herein provided, District may, without liability for so doing, take possession of and utilize in completing the Work such materials, appliances, plan, and other property belonging to Contractor as may be on the Site of the Work, in bonded storage, or previously paid for.

23.1.2.4. Conversion to Termination for Convenience. In the event the Contract is terminated under this "District's Right to Terminate Contractor for Cause" section and it is finally determined by an arbitrator, court, jury or other tribunal having jurisdiction, for any reason, that the Contractor was not in default under the provisions hereof or that the District's exercise of its rights under this section was defective, deficient, ineffective, invalid or improper for any reason, the termination shall be deemed a termination for convenience of the District under the "Termination of Contractor for Convenience" section herein and thereupon, the rights and obligations of the District and the Contractor shall be determined in accordance with the "Termination of Contractor for Convenience" section herein.

23.1.3. Effect of Termination

23.1.3.1. Contractor shall, only if ordered to do so by the District, immediately remove from the Site all or any materials and personal property belonging to Contractor that have not been incorporated in the construction of the Work, or which are not in place in the Work. District retains the right, but not the obligation, to keep and use any materials and personal property belonging to Contractor that have not been incorporated in the construction of the Work, or which are not in place in the Work. Contractor and its Surety shall be liable upon the performance bond for all damages caused the District by reason of the Contractor's failure to complete the Contract.

23.1.3.2. In the event that the District shall perform any portion of, or the whole of the Work, pursuant to the provisions of the General Conditions, the District shall not be liable nor account to the Contractor in any way for the time within which, or the manner in which, the Work is performed by the District or for any changes the District may make in the Work or for the money expended by the District in satisfying claims and/or suits and/or other obligations in connection with the Work.

23.1.3.3. In the event that the Contract is terminated for any reason, no allowances or compensation will be granted for the loss of any anticipated profit by the Contractor or any impact or impairment of Contractor's bonding capacity.

23.1.3.4. If the expense to the District to finish the Work exceeds the unpaid Contract Price, Contractor and Surety shall pay difference to District within twenty-one (21) days of District's request.

23.1.3.5. Assignment and Assumption of Subcontracts. District shall have the right (but shall have no obligation) to assume and/or assign to a general contractor or construction manager or other third party who is qualified and has sufficient resources to complete the Work, the rights of the Contractor under its subcontracts with any or all Subcontractors. In the event of an assumption or assignment by the District, no Subcontractor shall have any claim against the District or third party for Work performed by Subcontractor or other matters arising prior to termination of the Contract. The District or any third party, as the case may be, shall be liable only for obligations to the Subcontractor arising after assumption or assignment. Should the District so elect, the Contractor shall execute and deliver all documents and take all steps, including the legal assignment of its contractual rights, as the District may require, for the purpose of fully vesting in the District the rights and benefits of it Subcontractor under Subcontracts or other obligations or commitments. All payments due the Contractor hereunder shall be subject to a right of offset by the District for expenses and damages suffered by the District as a result of any default, acts, or omissions of the Contractor. Contractor must include this assignment provision in all of its contracts with its Subcontractors.

23.1.3.6. The foregoing provisions are in addition to and not in limitation of any other rights or remedies available to District.

23.2. Emergency Termination of Public Contracts Act of 1949

23.2.1. The Contract is subject to termination as provided by sections 4410 and 4411 of the Government Code of the State of California, being a portion of the Emergency Termination of Public Contracts Act of 1949.

23.2.1.1. Section 4410 of the Government Code states:

In the event a national emergency occurs, and public work, being performed by contract, is stopped, directly or indirectly, because of the freezing or diversion of materials, equipment or labor, as the result of an order or a proclamation of the President of the United States, or of an order of any federal authority, and the circumstances or conditions are such that it is impracticable within a reasonable time to proceed with a substantial portion of the work, then the public agency and the contractor may, by written agreement, terminate said contract.

23.2.1.2. Section 4411 of the Government Code states:

Such an agreement shall include the terms and conditions of the termination of the contract and provision for the payment of compensation or money, if any, which either party shall pay to the other or any other person, under the facts and circumstances in the case.

23.2.2. Compensation to the Contractor shall be determined at the sole discretion of District on the basis of the reasonable value of the Work done, including preparatory work. As an exception to the foregoing and at the District's discretion, in the case of any fully completed separate item or portion of the Work for which there is a separate previously submitted unit price or item on the accepted Schedule of Values, that price shall control. District, in its sole discretion, may adopt the Contract Price as the reasonable value of the Work performed or any portion thereof.

23.3. Termination of Contractor for Convenience

23.3.1. District in its sole discretion may terminate the Contract upon three (3) days written notice to the Contractor. Under a termination for convenience, the District retains the right to all the options available

to the District if there is a termination for cause. In case of a termination for convenience, Contractor shall have no claims against the District except:

23.3.1.1. The actual cost for labor, materials, and services performed that is unpaid and can be documented through timesheets, invoices, receipts, or otherwise, and

23.3.1.2. Five percent (5%) of the total cost of work performed as of the date of termination, or five percent (5%) of the value of the Work yet to be performed, whichever is less. This five percent (5%) amount shall be full compensation for all Contractor's and its Subcontractor(s)' mobilization and/or demobilization costs and any anticipated loss profits resulting from termination of the Contractor for convenience.

23.4. Suspension of Work

23.4.1. District may, without cause, order Contractor in writing to suspend, delay or interrupt the Project in whole or in part for such period of time as District may determine. When the District resumes the Project, the Parties will attempt to negotiate an adjustment in the Contract Price for increases or decreases in the cost of performance of the Project caused by suspense, delay or interruption. If the Parties cannot agree on an adjusted Contract Price, the District may terminate the Contract as permitted herein.

23.4.2. In the event the District shall order suspension of the Work, an adjustment shall be made to the Contract Price for increases in the direct cost of performance of the Work of the Contract Documents, actually caused by suspension, delay or interruption ordered by the District; provided however that no adjustment of the Contract Price shall be made to the extent: (i) that performance is, was or would have been so suspended, delayed or interrupted by another cause for which the Contractor is responsible under the Contract Documents; or (ii) that an equitable adjustment is made or denied under another provision of the Contract Documents. The foregoing notwithstanding, any adjustment of the Contract Price shall not include any adjustment to increase the Contractor's overhead, general administrative costs or profit, all of which will remain as reflected in the Schedule of Values submitted by the Contractor pursuant to the Contract Documents. In the event of the District's suspension of the Work, the Contract Time shall be equitably adjusted.

23.5. Scope Reduction

In cases of suspension, partial or complete termination, or at the discretion of the District, the District reserves the right to unilaterally approve a deductive Change Order to reduce scope of work or perform work with other forces or its own forces.

24. CLAIMS RESOLUTION

24.1. Exclusive Remedy.

24.1.1. Compliance with the claim resolution process and timelines described in this Claims Resolution section as well as the notice provisions of the Contract are express conditions precedent to Contractor's right to commence litigation or arbitration, file a claim under the California Government Code, or commence any other legal action related to the Project ("Claims Resolution Process").

24.1.2. Contractor acknowledges that its failure, for any reason, to provide written notice and all required supporting documentation to permit the District's review and evaluation within the time frame required by this Claims Resolution Process, shall be deemed Contractor's waiver, release, discharge and relinquishment of any right to assert, request, or demand any entitlement to an adjustment of the Contract Time or the contract Price on account of any instruction, request, drawings, specifications, action, condition, omission, default or other situation.

24.1.3. To the extent any provision(s) of this Claims Resolution Process conflict with or otherwise impair the timeframes and procedures of Public Contract Code section 9204, the provisions of Section 9204 shall control. If provisions of this Claims Resolution Process are supplementary and/or in addition to the requirements of Section 9204, but do not conflict with or otherwise impair the timeframes and procedures of Section 9204, the provisions of this Claims Resolution Process and the Contract shall control.

24.2. Performance during Claim Resolution Process.

The Contractor shall diligently proceed with Work on the Project at the same time that Claims are addressed under the Claims Resolution Process. It is the intent of District to resolve Claims with the Contractor as close to the events giving rise to the Claims as possible, and to avoid stale or late Claims and the late documenting of Claims. Contractor's failure to diligently proceed in accordance with the District's instructions or the Contract terms will be considered a material breach of the Contract and a waiver of Contractor's rights under this Contract.

24.3. Waiver.

If Contractor fails to timely submit any written notices required under the terms of the Contract or in this Claims Resolution section, Contractor waives and releases its rights regarding further review of its Claim, unless Contractor and District mutually agree in writing to other time limits.

24.4. Intention.

The Claims Resolution Process required herein is intended to provide a concise mechanism for resolving Claims as they arise during the Project, while requiring accurate documentation related to contested issues as to those Claims that are not contemporaneously resolved.

24.5. Other Provisions.

If portions of the Contract, other than this Claims Resolution Process, establish a specific process regarding a specific subject, then that process shall govern and control the resolutions of any disagreements thereunder. Otherwise, the provisions in this Claims Resolution Process shall control the resolution of all Claims.

24.6. Claim Presentation

24.6.1. Claim: A claim is a written demand by Contractor (or by Contractor on behalf of a Subcontractor) that the Contractor must submit by **registered mail or certified mail return receipt requested** for:

24.6.1.1. An extension to the Contract Time, including relief from damages or penalties assessed by the District for delay;

24.6.1.2. Payment of money or damages arising from work done by, or on behalf of, the Contractor pursuant to the Contract and payment that is not otherwise expressly provided for in the Contract Documents or the Contractor is not otherwise entitled; or

24.6.1.3. Payment that is disputed by the District.

("Claim")

24.6.2. A PCO may be a Claim, but the Parties agree that a PCO shall only be a Claim if:

24.6.2.1. The District states in writing that it disagrees with the terms of a PCO and directs the Contractor to utilize the Claim Resolution Process, or

24.6.2.2. The District rejects in whole or in part a PCO and the Contractor states in writing that it is utilizing the Claim Resolution Process for the portion of the PCO that the District rejected.

24.6.3. Subcontractors.

24.6.3.1. Public Contract Code section 9204(d)(5) states that the Contractor may present to the District a Claim on behalf of a Subcontractor or lower tier Subcontractor. A Subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier Subcontractor, that the Contractor present a claim for Work which was performed by the Subcontractor or by a lower tier Subcontractor on behalf of the Subcontractor. The Subcontractor requesting that the Claim be presented to the District shall furnish reasonable documentation to support the Claim. Within 45 days of receipt of this written request, the Contractor shall notify the Subcontractor in writing as to whether the Contractor presented the claim to the District and, if the Contractor did not present the Claim, provide the Subcontractor with a statement of the reasons for not having done so.

24.6.3.2. Contractor is responsible for providing this Claims Resolution Process to its Subcontractors and for ensuring that all Subcontractors or others who may assert Claims by and through Subcontractors and/or the Contractor are informed of this Claims Resolution Process. No Claim submitted by any party that fails to follow the provisions of this Claims Resolution Process will be considered. Contractor shall indemnify, keep and hold harmless the District and its consultants, against all suits, claims, damages, losses, and expenses, including but not limited to attorney's fees, caused by, arising out of, resulting from, or incidental to, the failure to provide this Claims Resolution Process to its Subcontractors or others who may assert Claims by and through Subcontractors and/or the Contractor.

24.6.4. Contractor Must Timely Identify, Present and Document Any Claim

24.6.4.1. Every Claim shall be stated with specificity in writing and signed by Contractor under penalty of perjury and presented to the District within ten (10) calendar days from the date Contractor discovers or reasonably should discover, that an act, error or omission of District, its agents or employees, or action, condition or other situation has occurred that may entitle Contractor to make a Claim. This shall include the Contractor's actual or constructive knowledge of any instruction, request, drawings, specifications, action, condition, omission, default or other situation for which the contractor believes there should an adjustment of the Contract Price or Contract Time. Contractor shall provide this writing even if Contractor has not yet been damaged, delayed, or incurred extra cost when Contractor discovers, or reasonably should discover, the act, error, omission, action, condition or situation giving rise to the incidents giving rise to the Claim. The writing shall:

24.6.4.1.1. Identify all of the issues, events, conditions, circumstances and/or causes giving rise to the Claim;

24.6.4.1.2. Identify all pertinent dates and/or durations and all actual and/or anticipated effects on the Contract Price, milestones and/or Contract Time adjustments; and

24.6.4.1.3. Identify in detail line-item costs if the Claim seeks money.

24.6.4.1.4. If the Claim involves extra work, a detailed cost breakdown of the amounts the Contractor is seeking, including actual cost records (including without limitation, payroll records, material and rental invoices and the like) demonstrating that those costs have actually been incurred. To the extent costs have not yet been incurred at the time the Claim is submitted,

actual cost records must be submitted on a current basis not less than once a week during any periods costs are incurred. A cost record will be considered current if submitted within seven (7) days of the date the cost reflected in the record is incurred. At the request of District, extra costs may be subject to further verification procedures (such as having an inspector verify the performance of alleged extra work on a daily basis).

24.6.4.1.5. If the Claim involves an error or omission in the Contract Documents:

24.6.4.1.5.1. An affirmative representation under penalty of perjury by Contractor and any affected Subcontractors and suppliers that the error or omission was not discovered prior to submitting a proposal for the Work, and

24.6.4.1.5.2. A detailed statement demonstrating that the error or omission reasonably should not have been discovered, by Contractor, its Subcontractors and suppliers, prior to submitting a proposal for the Work.

24.6.4.1.6. If the Claim involves a request for additional compensation for escalation of materials costs, then this provision exclusively governs those request(s) by Contractor and the following are all conditions precedent to Contractor's submission of a Change Order Request or Claim for additional compensation for escalation of materials costs.

24.6.4.1.6.1. Contractor shall not be entitled to submit a request for compensation for escalation of materials unless the actual cost of materials exceeds in question ten percent (10%) of the **total** material costs on the Project.

24.6.4.1.6.2. The cost escalation is the result of unusual and unforeseeable market conditions not reasonably foreseeable at the time of award of the Contract and was not an escalated cost resulting from any action or inaction of the Contractor.

24.6.4.1.6.3. Contractor timely ordered and/or purchased the materials at issue.

24.6.4.1.6.4. Contractor's material costs were reasonable at the time of Contractor's bid for the Project.

24.6.4.1.6.5. Contractor demonstrates an actual increase in the cost of materials in its Contract Price at the time of award of the Contract and/or as reflected in Contractor's escrowed bid documents compared to Contractor's actual material payment cost paid either at time of purchase or delivery, whichever is earlier.

24.6.4.1.6.6. An actual year-to-date price increase has occurred and can be substantiated by the E.N.R. 20-City Average Material Cost Index for the material at issue that demonstrates the claim for an increase in price of the material at the time of delivery of the higher priced material to the Project.

24.6.4.2. The writing shall be accompanied by all documents substantiating Contractor's position regarding the Claim.

24.6.4.3. A Claim that asserts an effect on any schedule milestones and/or Contract Time shall include all pertinent scheduling data demonstrating the impact(s) on the critical path(s), milestone(s) and/or Contract Time.

24.6.4.4. Contractor agrees that it shall not base its damages, its calculations or its Claim on a "total cost" approach, a "modified total cost" approach or a "jury verdict method" approach.

24.6.5. Certification. Each copy of the Claim Documentation shall be certified by a responsible officer of the Contractor in accordance with the requirements of the Contract Documents. This certification shall be under penalty of perjury and must include the following language immediately above or before the Contractor's signature: ***"I declare under penalty of perjury under the laws of the State of California that the information provided and statements made in this Claim are true and correct, substantiated and of merit."*** The Contractor acknowledges that this requirement is not a mere formality but is intended to ensure that the Contractor only submits Claims that it believes are true and correct, substantiated and have merit. Should Contractor fail to submit the foregoing written statement signed under penalty of perjury, Contractor waives and releases its Claim, including all rights and remedies in connection therewith. This certification must include a certification of any portion of the Claim from Subcontractor(s) or others who are asserting Claims by and through Subcontractors and/or the Contractor

24.6.6. District's Written Statement/Decision on Claim. The District shall issue a written statement/decision regarding the Claim to the Contractor within forty-five (45) days of receipt of the written Claim from the Contractor, or three (3) days after the District's first regular governing board meeting after that 45-day period if the District's governing board does not meet within that first 45-day period. If the District fails to timely provide a written statement/decision regarding the Claim, the Claim shall be deemed rejected in its entirety.

24.6.7. Contractor Must Demand an Informal Meet and Confer Conference if Contractor Pursues Any Claim

24.6.7.1. FAILURE OF A CONTRACTOR TO TIMELY DEMAND A MEET AND CONFER CONFERENCE IS A WAIVER OF ITS RIGHT TO PURSUE ALL OR A PORTION OF ITS CLAIM.

24.6.7.2. Where There Is No Agreement: If there is no agreement between Contractor and the District on a Claim, then within ten (10) calendar days of the date of the District's written statement/decision in response to a Claim or PCO, if Contractor pursues that Claim, then Contractor must demand, by **registered mail or certified mail return receipt requested**, a meet and confer conference with District staff. A meet and confer conference with District staff shall be a condition precedent to Contractor seeking any further relief, including a mediation as indicated below.

24.6.7.3. Where There Is Partial Agreement: If Contractor and the District partially agree on a Claim but do not reach complete agreement, then the Parties shall complete a Change Order, if applicable, for the issues and/or amounts agreed to. For those issues not agreed to, if Contractor pursues those issues from that Claim, then Contractor must demand, by **registered mail or certified mail return receipt requested**, a meet and confer conference with District staff regarding those issues. A meet and confer conference with District staff shall be a condition precedent to Contractor seeking any further relief, including a mediation as indicated below, in connection with the District's rejection.

24.6.7.4. Meet and Confer Conference. District and Contractor shall schedule the meet and confer conference as soon as reasonably possible after Contractor's written demand for a meet and confer conference, but in no case later than thirty (30) days after Contractor's demand.

24.6.7.5. District's Written Decision. Within ten (10) **business** days of the meet and confer conference, the District shall issue a written decision. If the District fails to timely provide a written statement/decision after the meet and confer conference, all Claim issues that were part of the meet and confer conference shall be deemed rejected in their entirety.

24.6.7.5.1. If the District's decision completely resolves the Claim, then the Parties shall complete a Change Order, if applicable, for the issues and/or amounts agreed to.

24.6.7.5.2. If the District rejects the Contractor's Claim in whole or in part or does not issue a timely written response, then the parties shall mediate the remaining issues of the Claim.

24.6.7.5.3. Contractor's costs incurred in seeking relief for Claims are not recoverable from District.

24.6.8. Mediation.

24.6.8.1. At the District's sole discretion, this mediation may be a multiple-party mediation with the Architect, the Construction Manager, the Inspector, and/or other District consultants.

24.6.8.2. The District and Contractor shall mutually agree to a mediator within ten (10) **business** days after the disputed portion of the Claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the Claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator.

24.6.9. Contractor's Obligation to File a Government Code Claim. Nothing in this Contract, including this Claims Resolution Process, waives, modifies or tolls the Contractor's obligation to present a timely claim under Government Code section 910, et seq. Therefore, in addition to complying with this Claims Resolution Process, the Contractor is required to present claims to the District pursuant to Government Code section 910, et seq. If after the requirements of this Claims Resolution Process are satisfied, and all or a portion of the Claim remains unresolved, and if the Government Code claim is rejected by the District, the Contractor may proceed under the post-mediation provisions of this Claims Resolution Process.

24.6.10. Post Mediation Provisions

24.6.10.1. Claims of \$375,000 or Less: The provisions of Public Contract Code § 20104.4 shall apply. Pursuant to Public Contract Code § 20104.4(a), within sixty (60) days, but no earlier than thirty (30) days, following the filing of responsive pleadings, the court shall submit the matter to nonbinding mediation unless waived by mutual stipulation of both parties. Pursuant to Public Contract Code § 9204(d)(2)(D), a mediation conducted pursuant to this Claims Resolution Process shall excuse the obligation under Public Contract Code § 20104.4(a) to mediate after litigation has been commenced unless otherwise agreed to by the parties in writing.

24.6.10.2. Litigation of Claims in Excess of \$375,000. If, after a mediation as indicated above, the Parties have not resolved the Claim, either Party may commence an action in a court of competent jurisdiction to contest that decision within ninety (90) days following the conclusion of that mediation or one (1) year following the accrual of the cause of action, whichever is later. By mutual agreement, the Parties can agree to instead resolve the Claim through arbitration.

24.6.11. The District shall be entitled to remedy any false claims, as defined in California Government Code section 12650 *et seq.*, made to the District by the Contractor or any Subcontractor under the standards set forth in Government Code section 12650 *et seq.* Any Contractor or Subcontractor who submits a false claim shall be liable to the District for three times the amount of damages that the District sustains because of the false claim. A Contractor or Subcontractor who submits a false claim shall also be liable to the District for (a) the costs, including attorney fees, of a civil action brought to recover any of those penalties or damages, and (b) a civil penalty of up to \$11,000 for each false claim. In addition, Contractor may be subject to criminal prosecution under California Penal Code §72 and/or civil liability under False Claims Act. If so, the District may be entitled to recover its costs incurred to investigate any False Claim, including but not limited to attorneys' fees and expert fees incurred in connection with that investigation.

24.7. Documentation of Resolution.

If a Claim is resolved, the District shall determine if that resolution shall be documented in an Agreement and Release of Any and All Claims form or other document, as appropriate.

24.8. Claim Resolution Process – Non-Applicability.

The procedures and provisions in this Claims Resolution section shall **not** apply to:

24.8.1. District’s determination of what Work is or will be constructed, or whether the Work complies with the Contract Documents for purposes of accepting the Work;

24.8.2. District’s rights and obligations as a public entity, such as, but without limitation, the revocation of pre-qualified or qualified status, barring a contractor from District contracts, the imposition of penalties or forfeitures prescribed by statute or regulation; provided, however, that penalties imposed against a public entity by statutes such as Public Contract Code section 7107, shall be subject to the mandatory dispute resolution provisions of this Claims Resolution section and the Contract;

24.8.3. Personal injury, wrongful death or property damage claims;

24.8.4. Latent defect or breach of warranty or guarantee to repair;

24.8.5. Stop notices or stop payment notices; or

24.8.6. Any other District rights as set forth herein.

24.9. The District’s failure to respond to a Claim from the Contractor within the time periods described herein or to otherwise meet the time requirements of Public Contract Code section 9204 shall automatically result in the Claim being deemed rejected in its entirety, with no admission by the District as to the merits of the Claim.

24.10. If District fails to timely issue payment for any Claim or portion of a Claim as required pursuant to these Claim Resolution Procedures, the Contractor is permitted to assess interest indicated in Public Contract Code section 9204. Notwithstanding this provision, and in accordance with Public Contract Code section 7107, the District is entitled to withhold up to 150% of disputed amounts and the District shall not be liable for payment of interest on such disputed amounts pending final adjudication of such disputes.

25. LABOR, WAGE & HOUR, APPRENTICE AND RELATED PROVISIONS

25.1. Contractor & Subcontractor Registration

25.1.1. Contractor shall comply with the registration and compliance monitoring provisions of Labor Code section 1771.4, including furnishing its CPRs to the Labor Commissioner of California and complying with any applicable enforcement by the Department of Industrial Relations. Labor Code section 1771.1(a) states the following:

“A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the

contract is awarded.”

25.1.2. Contractor acknowledges that, for purposes of Labor Code section 1725.5, all or some of the Work is a public work to which Labor Code section 1771 applies. Contractor shall comply with Labor Code section 1725.5, including without limitation the registration requirements. Additionally, all Contractor’s Subcontractors shall comply with Labor Code section 1725.5 to be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code or engage in the performance of the Contract. Contractor represents that all of its Subcontractors are registered pursuant to Labor Code section 1725.5.

25.1.3. The Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. Contractor shall post job site notices, as prescribed by regulation. Contractor shall comply with all requirements of Labor Code section 1771.4, except the requirements that are exempted by the Labor Commissioner for the Project.

25.2. Wage Rates, Travel and Subsistence

25.2.1. Pursuant to the provisions of article 2 (commencing at section 1770), chapter 1, part 7, division 2, of the Labor Code of California, the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work in the locality in which this public work is to be performed for each craft, classification, or type of worker needed to execute this Contract are on file at the District’s principal office and copies will be made available to any interested party on request and are available to any interested party on request or at www.dir.ca.gov/oprl/statistics_and_databases.html. Contractor shall obtain and post a copy of these wage rates at the job site.

25.2.2. Holiday and overtime work, when permitted by law, shall be paid for at a rate of at least one and one-half times the above specified rate of per diem wages, unless otherwise specified. The holidays upon which those rates shall be paid need not be specified by the District but shall be all holidays recognized in the applicable collective bargaining agreement. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code.

25.2.3. Contractor shall pay and shall cause to be paid each worker engaged in Work on the Project not less than the general prevailing rate of per diem wages determined by the Director of the Department of Industrial Relations (“DIR”) (“Director”), regardless of any contractual relationship which may be alleged to exist between Contractor or any Subcontractor and such workers.

25.2.4. If during the period this bid is required to remain open, the Director determines that there has been a change in any prevailing rate of per diem wages in the locality in which the Work under the Contract is to be performed, such change shall not alter the wage rates in the Invitation to Bid or the Contract subsequently awarded.

25.2.5. Pursuant to Labor Code section 1775, Contractor shall, as a penalty to District, forfeit the statutory amount, (currently not to exceed two hundred dollars (\$200) for each calendar day, or portion thereof), for each worker paid less than the prevailing rates, as determined by the District and/or the Director, for the work or craft in which that worker is employed for any public work done under Contract by Contractor or by any Subcontractor under it.

25.2.5.1. The amount of the penalty shall not be less than forty dollars (\$40) for each calendar day, or portion thereof, unless the failure of Contractor was a good faith mistake and, if so, the error was promptly and voluntarily corrected when brought to the attention of Contractor.

25.2.5.2. The amount of the penalty shall not be less than eighty dollars (\$80) for each calendar day or portion thereof, if Contractor has been assessed penalties within the previous three (3) years

for failing to meet Contractor's prevailing wage obligations on a separate contract, unless those penalties were subsequently withdrawn or overturned.

25.2.5.3. The amount of the penalty may not be less than one hundred twenty dollars (\$120) for each calendar day, or portion thereof, if the Labor Commissioner determines the Contractor willfully violated Labor Code section 1775.

25.2.5.4. The difference between such prevailing wage rates and the amount paid to each worker for each calendar day or portion thereof for which each worker was paid less than the prevailing wage rate, shall be paid to each worker by Contractor.

25.2.6. Any worker employed to perform Work on the Project, which Work is not covered by any classification listed in the general prevailing wage rate of per diem wages determined by the Director, shall be paid not less than the minimum rate of wages specified therein for the classification which most nearly corresponds to Work to be performed by him, and such minimum wage rate shall be retroactive to time of initial employment of such person in such classification.

25.2.7. Pursuant to Labor Code section 1773.1, per diem wages are deemed to include employer payments for health and welfare, pension, vacation, travel time, subsistence pay, and apprenticeship or other training programs authorized by section 3093, and similar purposes.

25.2.8. Contractor shall post at appropriate conspicuous points on the Site of Project, a schedule showing all determined minimum wage rates and all authorized deductions, if any, from unpaid wages actually earned. In addition, Contractor shall post a sign-in log for all workers and visitors to the Site, a list of all subcontractors of any tier on the Site, and the required Equal Employment Opportunity poster(s).

25.3. Hours of Work

25.3.1. As provided in article 3 (commencing at section 1810), chapter 1, part 7, division 2 of the Labor Code, eight (8) hours of labor shall constitute a legal days work. The time of service of any worker employed at any time by Contractor or by any Subcontractor on any subcontract under this Contract upon the Work or upon any part of the Work contemplated by this Contract shall be limited and restricted by Contractor to eight (8) hours per day, and forty (40) hours during any one week, except as hereinafter provided. Notwithstanding the provisions hereinabove set forth, Work performed by employees of Contractor in excess of eight (8) hours per day and forty (40) hours during any one week, shall be permitted upon this public work upon compensation for all hours worked in excess of eight (8) hours per day at not less than one and one-half times the basic rate of pay.

25.3.2. Contractor shall keep and shall cause each Subcontractor to keep an accurate record showing the name of and actual hours worked each calendar day and each calendar week by each worker employed by Contractor in connection with the Work or any part of the Work contemplated by this Contract. The record shall be kept open at all reasonable hours to the inspection of District and to the Division of Labor Standards Enforcement of the DIR.

25.3.3. Pursuant to Labor Code section 1813, Contractor shall as a penalty to the District forfeit the statutory amount (believed by the District to be currently twenty five dollars (\$25)) for each worker employed in the execution of this Contract by Contractor or by any Subcontractor for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar week in violation of the provisions of article 3 (commencing at section 1810), chapter 1, part 7, division 2, of the Labor Code.

25.3.4. Any Work necessary to be performed after regular working hours, or on Sundays or other holidays shall be performed without additional expense to the District.

25.4. Payroll Records

25.4.1. Contractor and all Subcontractors must comply with the compliance monitoring provisions of Labor Code section 1771.4, including furnishing its certified payroll records ("CPR(s)") to the Labor Commissioner of California and complying with any applicable enforcement by DIR. Labor Code section 1771.4 requires Contractor and Subcontractors to provide electronic copies of CPRs to the Labor Commissioner of California at least once every thirty (30) days, and within thirty (30) days of Project Completion. The failure to timely provide the CPRs could result in penalties as determined by Labor Code section 1771.4, applicable laws, and regulations

25.4.2. If requested by the District, Contractor shall provide to the District and shall cause each Subcontractor performing any portion of the Work to provide the District and an accurate and certified payroll record ("CPR(s)"), showing the name, address, social security number, work classification, straight time, and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by the Contractor and/or each Subcontractor in connection with the Work.

25.4.2.1. In addition to any other requirements pursuant to Labor Code sections 1770, et seq., the CPRs enumerated hereunder shall be certified and shall be provided to the District on a weekly basis. The CPRs from the Contractor and each Subcontractor for each week shall be provided on or before Wednesday of the week following the week covered by the CPRs. District shall not make any payment to Contractor until:

25.4.2.1.1. Contractor and/or its Subcontractor(s) provide CPRs acceptable to the District, and

25.4.2.1.2. The District is given sufficient time to review and/or audit the CPRs to determine their acceptability. Any delay in Contractor and/or its Subcontractor(s) providing CPRs to the District in a timely manner will directly delay the District's review and/or audit of the CPRs and Contractor's payment.

25.4.3. All CPRs shall be available for inspection at all reasonable hours at the principal office of Contractor on the following basis:

25.4.3.1. A certified copy of an employee's CPR shall be made available for inspection or furnished to the employee or his/her authorized representative on request.

25.4.3.2. CPRs shall be made available for inspection or furnished upon request to a representative of District, Division of Labor Standards Enforcement, Division of Apprenticeship Standards, and/or the Department of Industrial Relations.

25.4.3.3. CPRs shall be made available upon request by the public for inspection or copies thereof made; provided, however, that a request by the public shall be made through either the District, Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement. If the requested CPRs have not been provided pursuant to the provisions herein, the requesting party shall, prior to being provided the records reimburse the costs of preparation by Contractor, Subcontractors, and the entity through which the request was made. The public shall not be given access to the records at the principal office of Contractor.

25.4.4. The form of certification for the CPRs shall be as follows:

I, _____ (Name-Print), the undersigned, am the _____
_____ (Position in business) with the authority to act for and on behalf of _____
_____ (Name of business and/or Contractor), certify under penalty of perjury that the

records or copies thereof submitted and consisting of _____
(Description, number of pages) are the originals or true, full, and correct copies of the originals which depict the payroll record(s) of actual disbursements by way of cash, check, or whatever form to the individual or individual named, and (b) we have complied with the requirements of sections 1771, 1811, and 1815 of the Labor Code for any work performed by our employees on the Project.

Date: _____ Signature: _____
(Section 16401 of Title 8 of the California Code of Regulations)

25.4.5. Each Contractor shall file a certified copy of the CPRs with the entity that requested the records within ten (10) days after receipt of a written request.

25.4.6. Any copy of records made available for inspection as copies and furnished upon request to the public or any public agency by District, Division of Apprenticeship Standards, or Division of Labor Standards Enforcement shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address, and social security number. The name and address of Contractor awarded Contract or performing Contract shall not be marked or obliterated.

25.4.7. Contractor shall inform District of the location of the records enumerated hereunder, including the street address, city, and county, and shall, within five (5) Business Days, provide a notice of change of location and address.

25.4.8. In the event of noncompliance with the requirements of this section, Contractor shall have ten (10) days in which to comply subsequent to receipt of written notice specifying in what respects Contractor must comply with this section. Should noncompliance still be evident after the ten (10) day period, Contractor shall, as a penalty to District, forfeit one hundred dollars (\$100) for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of Division of Apprenticeship Standards or Division of Labor Standards Enforcement, these penalties shall be withheld from progress payments then due.

25.4.9. It shall be the responsibility of Contractor to ensure compliance with the provisions of Labor Code section 1776.

25.5. Apprentices

25.5.1. Contractor acknowledges and agrees that, if this Contract involves a dollar amount greater than or a number of working days greater than that specified in Labor Code section 1777.5, then this Contract is governed by the provisions of Labor Code Section 1777.5. It shall be the responsibility of Contractor to ensure compliance with this Article and with Labor Code section 1777.5 for all apprenticeship occupations.

25.5.2. Apprentices of any crafts or trades may be employed and, when required by Labor Code section 1777.5, shall be employed provided they are properly registered in full compliance with the provisions of the Labor Code.

25.5.3. Every such apprentice shall be paid the standard wage paid to apprentices under the regulations of the craft or trade at which he/she is employed and shall be employed only at the work of the craft or trade to which she/he is registered.

25.5.4. Only apprentices, as defined in section 3077 of the Labor Code, who are in training under apprenticeship standards and written apprentice agreements under chapter 4 (commencing at section 3070), division 3 of the Labor Code, are eligible to be employed. The employment and training of each apprentice shall be in accordance with the provisions of the apprenticeship standards and apprentice

agreements under which he/she is training.

25.5.5. Pursuant to Labor Code section 1777.5, if that section applies to this Contract as indicated above, Contractor and any Subcontractors employing workers in any apprenticeable craft or trade in performing any Work under this Contract shall apply to the applicable joint apprenticeship committee for a certificate approving the Contractor or Subcontractor under the applicable apprenticeship standards and fixing the ratio of apprentices to journeymen employed in performing the Work.

25.5.6. Pursuant to Labor Code section 1777.5, if that section applies to this Contract as indicated above, Contractor and any Subcontractor may be required to make contributions to the apprenticeship program.

25.5.7. If Contractor or Subcontractor willfully fails to comply with Labor Code section 1777.5, then, upon a determination of noncompliance by the Administrator of Apprenticeship, it shall:

25.5.7.1. Be denied the right to bid on any subsequent project for one (1) year from the date of such determination;

25.5.7.2. Forfeit as a penalty to District the full amount as stated in Labor Code section 1777.7. Interpretation and enforcement of these provisions shall be in accordance with the rules and procedures of the California Apprenticeship Council and under the authority of the Chief of the Division of Apprenticeship Standards.

25.5.8. Contractor and all Subcontractors shall comply with Labor Code section 1777.6, which section forbids certain discriminatory practices in the employment of apprentices.

25.5.9. Contractor shall become fully acquainted with the law regarding apprentices prior to commencement of the Work. Special attention is directed to sections 1777.5, 1777.6, and 1777.7 of the Labor Code, and title 8, California Code of Regulations, section 200 et seq. Questions may be directed to the State Division of Apprenticeship Standards, 455 Golden Gate Avenue, San Francisco, California 94102.

25.5.10. Contractor shall ensure compliance with all certification requirements for all workers on the Project including, without limitation, the requirements for electrician certification in Labor Code sections 108, et seq.

25.6. Non-Discrimination

25.6.1. Contractor herein agrees not to discriminate in its recruiting, hiring, promotion, demotion, or termination practices on the basis of race, religious creed, national origin, ancestry, sex, age, or physical handicap in the performance of this Contract and to comply with the provisions of the California Fair Employment and Housing Act as set forth in part 2.8 of division 3 of the California Government Code, commencing at section 12900; the Federal Civil Rights Act of 1964, as set forth in Public Law 88-352, and all amendments thereto; Executive Order 11246, and all administrative rules and regulations found to be applicable to Contractor and Subcontractor.

25.6.2. Special requirements for Federally Assisted Construction Contracts: During the performance of this Contract, Contractor agrees to incorporate in all subcontracts the provisions set forth in Chapter 60-1.4(b) of Title 41 published in Volume 33 No. 104 of the Federal Register dated May 28, 1968.

25.7. Labor First Aid

Contractor shall maintain emergency first aid treatment for Contractor's workers on the Project which complies with the Federal Occupational Safety and Health Act of 1970 (29 U.S.C. § 651 et seq.) the California Occupational Safety and Health Act of 1973, and all related regulations, including without limitation section 330 et seq. of Title 8 of the California Code of Regulations.

26. MISCELLANEOUS

26.1. Assignment of Antitrust Actions

26.1.1. Section 7103.5(b) of the Public Contract Code states:

In entering into a public works contract or subcontract to supply goods, services, or materials pursuant to a public works contract, the Contractor or subcontractor offers and agrees to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, made and become effective at the time the awarding body tenders final payment to the Contractor, without further acknowledgment by the parties.

26.1.2. Section 4552 of the Government Code states:

In submitting a bid to a public purchasing body, the bidder offers and agrees that if the bid is accepted, it will assign to the purchasing body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder.

26.1.3. Section 4553 of the Government Code states:

If an awarding body or public purchasing body receives, either through judgment or settlement, a monetary recovery for a cause of action assigned under this chapter, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, upon demand, recover from the public body any portion of the recovery, including treble damages, attributable to overcharges that were paid by the assignor but were not paid by the public body as part of the bid price, less the expenses incurred in obtaining that portion of the recovery.

26.1.4. Section 4554 of the Government Code states:

Upon demand in writing by the assignor, the assignee shall, within one year from such demand, reassign the cause of action assigned under this part if the assignor has been or may have been injured by the violation of law for which the cause of action arose and (a) the assignee has not been injured thereby, or (b) the assignee declines to file a court action for the cause of action.

26.1.5. Under this Article, "public purchasing body" is District and "bidder" is Contractor.

26.2. Excise Taxes

If, under Federal Excise Tax Law, any transaction hereunder constitutes a sale on which a Federal Excise Tax is imposed and the sale is exempt from such Federal Excise Tax because it is a sale to a State or Local Government for its exclusive use, District, upon request, will execute documents necessary to show (1) that District is a political subdivision of the State for the purposes of such exemption, and (2) that the sale is for the exclusive use of District. No Federal Excise Tax for such materials shall be included in any Contract Price.

26.3. Taxes

Contract Price is to include any and all applicable sales taxes or other taxes that may be due in accordance

with section 7051 of the Revenue and Taxation Code; Regulation 1521 of the State Board of Equalization or any other tax code that may be applicable.

26.4. Shipments

All shipments must be F.O.B. destination to Site or sites, as indicated in the Contract Documents. There must be no charge for containers, packing, unpacking, drayage, or insurance. The total Contract Price shall be all inclusive (including sales tax) and no additional costs of any type will be considered.

26.5. Compliance with Government Reporting Requirements

If this Contract is subject to federal or other governmental reporting requirements because of federal or other governmental financing in whole or in part for the Project which it is part, or for any other reason, Contactor shall comply with those reporting requirements at the request of the District at no additional cost.

END OF DOCUMENT

SUBSTITUTION REQUEST FORM

TO: ***San Mateo-Foster City School District***

We believe that the following product is equal or superior to the specified product in appearance, durability, performance, and in every other respect, and we hereby submit it for your consideration as a substitute for the specified item for the above-referenced project:

A. Specified Item:

Section: _____ Page Number:

B. Proposed Substitution:

C. Reason for Substitution:

D. Supporting Data:

1. Attach complete technical data, including laboratory tests, if applicable.
2. Include complete information on changes to Drawings and/or Specifications describing the steps which proposed substitution will require for its proper installation.
3. Submit with request all necessary samples and substantiating data clearly marked to prove equal quality and performance to that which is specified.
4. Provide complete breakdown of costs indicating the cost amount to be deducted from the Contract Sum if the proposed substitution is accepted. Include documentation for both materials and labor.

Fill in Blanks Below:

E. List ways in which the proposed substitution affects dimensions shown on Drawings:

F. List affects of substitution on other trades:

G. List affects substitution will have on applicable code requirements and DSA approval:

H. List differences between proposed substitution and specified item:

I. Manufacturer's warranties of the proposed and specified items are:
_____ Same _____ Different

Explain

J. Describe substitution's affect on construction schedule:

K. List information on availability of maintenance service, and source of replacement materials.

L. Certification of, and Assumption of Liability for, Equivalent Performance.

The undersigned states that the function, appearance and quality of the above-described substitution is equivalent or superior to the specified item.

Submitted By:

Signature Title

Firm Address

Telephone Date

Signature must be by person having authority to legally bind his/her firm to the above terms. Failure to provide legally binding signature will result in retraction of approval.

Signed statement by General Contractor attesting that the proposed substitution is in full compliance with the Contract Documents and applicable regulatory requirements.

General Contractor Signature Date

For use by Architect:

- A. _____ Accepted
B. _____ Accepted As Noted
C. _____ Not Accepted

D. Remarks:

By:
Date:

END OF SECTION

SECTION 01 75 19

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Salvaging nonhazardous demolition and construction waste.
 - 2. Recycling nonhazardous demolition and construction waste.
 - 3. Disposing of nonhazardous demolition and construction waste.
- B. Related Requirements:
 - 1. Division 01 Section "CalGreen Requirements".

1.3 DEFINITIONS

- A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.
- C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to Authority Having Jurisdiction (AHJ).
- D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.
- E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.
- F. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.4 REGULATORY REQUIREMENTS

- A. Regulatory Requirements: Modernization shall meet the mandatory requirements of 2019 California Green Building Standards Code as adopted by DSA and local Authority Having Jurisdiction (AHJ) whichever is more stringent:

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL 01 75 19 - 1

1. 5.408.1 Construction Waste Management: Recycle and salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1; 5.408.1.2; 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.
2. 5.408.1.1 Construction Waste Management Plan: Where a local AHJ does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that:
 - a. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
 - b. Determine if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
 - c. Identifies diversion facilities where construction and demolition waste material collected will be taken.
 - d. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.
3. 5.408.1.2 Waste Management Company: Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section. The District and Contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. See CALGreen 5.408.1.2 for exceptions to this Section. Waste Management Company shall be approved by local AHJ.
4. 5.408.1.3 Waste Stream Reduction Alternative: The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.

1.5 PERFORMANCE REQUIREMENTS

- A. General: Recycle and salvage nonhazardous construction and demolition debris. Develop and implement a construction waste management plan that, at a minimum identifies the materials to be diverted from disposal and whether the materials will be sorted on-site or comingled. Excavated soil and land-clearing debris do not contribute to this credit. Calculations can be done by weight or volume, but not both, and must be consistent throughout.
- B. Practice efficient waste management in the use of materials in the course of the Work. Use all reasonable means to divert construction and demolition waste from landfills and incinerators. Facilitate recycling and salvage of materials.

1.6 INFORMATIONAL SUBMITTALS

- A. Waste Reduction Progress Reports: Concurrent with each Application for Payment, submit report. Include the following information:
 1. Material category.
 2. Generation point of waste.
 3. Total quantity of waste in tons.

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL 01 75 19 - 2

4. Quantity of waste salvaged, both estimated and actual in tons.
 5. Quantity of waste recycled, both estimated and actual in tons.
 6. Total quantity of waste recovered (salvaged plus recycled) in tons.
 7. Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste.
- B. Waste Reduction Calculations: Before request for Substantial Completion, submit calculated end-of-Project rates for salvage, recycling, and disposal as a percentage of total waste generated by the Work.
- C. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt.
- D. Records of Sales: Indicate receipt and acceptance of salvageable waste sold to individuals and organizations. Indicate whether organization is tax exempt.
- E. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- F. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

1.7 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with hauling and disposal regulations of local AHJ.
- B. Waste Management Conference: Conduct conference at Project site. Review methods and procedures related to waste management including, but not limited to, the following:
1. Review and discuss waste management plan including responsibilities of waste management coordinator.
 2. Review requirements for documenting quantities of each type of waste and its disposition.
 3. Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays.
 4. Review procedures for periodic waste collection and transportation to recycling and disposal facilities.
 5. Review waste management requirements for each trade.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

- A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.

- B. Waste Management Coordinator: Engage a waste management coordinator to be responsible for implementing, monitoring, and reporting status of waste management work plan. Coordinator shall be present at Project site full time for duration of Project.
- C. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work occurring at Project site.
 - 1. Distribute waste management plan to everyone concerned within 3 days of submittal return.
- D. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

3.2 SALVAGING DEMOLITION WASTE

- A. Salvaged Items for Reuse in the Work: Salvage items for reuse and handle as follows:
 - 1. Clean salvaged items.
 - 2. Pack or crate items after cleaning. Identify contents of containers with label indicating elements, date of removal, quantity, and location where removed.
 - 3. Store items in a secure area until installation.
 - 4. Protect items from damage during transport and storage.
 - 5. Install salvaged items to comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make items functional for use indicated.
- B. Salvaged Items for Sale and Donation: Not permitted on Project site.
- C. Salvaged Items for District's Use: Salvage items for District's use and handle as follows:
 - 1. Clean salvaged items.
 - 2. Pack or crate items after cleaning. Identify contents of containers with label indicating elements, date of removal, quantity, and location where removed.
 - 3. Store items in a secure area until delivery to District.
 - 4. Transport items to District's storage area designated by District.
 - 5. Protect items from damage during transport and storage.
- D. Electrical Devices: Separate switches, receptacles, switchgear, transformers, meters, panel boards, circuit breakers, and other devices by type.

3.3 RECYCLING DEMOLITION AND CONSTRUCTION WASTE, GENERAL

- A. General: Recycle paper and beverage containers used by on-site workers.
- B. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall accrue to District.
- C. Preparation of Waste: Prepare and maintain recyclable waste materials according to recycling or reuse facility requirements. Maintain materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process.

- D. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction waste management plan.
1. Provide appropriately marked containers or bins for controlling recyclable waste until removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.
 - a. Inspect containers and bins for contamination and remove contaminated materials if found.
 2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 3. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
 4. Store components off the ground and protect from the weather.
 5. Remove recyclable waste from District's property and transport to recycling receiver or processor.

3.4 RECYCLING DEMOLITION WASTE

- A. Wood Materials: Sort and stack members according to size, type, and length. Separate lumber, engineered wood products, panel products, and treated wood materials.
- B. Metals: Separate metals by type.
1. Structural Steel: Stack members according to size, type of member, and length.
 2. Remove and dispose of bolts, nuts, washers, and other rough hardware.
- C. Gypsum Board: Stack large clean pieces on wood pallets or in container and store in a dry location. Remove edge trim and sort with other metals. Remove and dispose of fasteners.
- D. Acoustical Ceiling Panels and Tile: Stack large clean pieces on wood pallets and store in a dry location.
- E. Metal Suspension System: Separate metal members including trim, and other metals from acoustical panels and tile and sort with other metals.
- F. Conduit: Reduce conduit to straight lengths and store by type and size.

3.5 RECYCLING CONSTRUCTION WASTE

- A. Packaging:
1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
 2. Polystyrene Packaging: Separate and bag materials.
 3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.

4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.

B. Wood Materials:

1. Clean Cut-Offs of Lumber: Grind or chip into small pieces.
2. Clean Sawdust: Bag sawdust that does not contain painted or treated wood.

- C. Gypsum Board: Stack large clean pieces on wood pallets or in container and store in a dry location.

3.6 DISPOSAL OF WASTE

- A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, removed waste materials taken from Project site shall be legally disposed of by certified construction and demolition recovery facility acceptable to AHJ.

1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

END OF SECTION

SECTION 05 50 13

ARCHITECTURAL METAL FABRICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

1. Steel framing and supports for counters.
2. Steel framing and supports for mechanical and electrical equipment.
3. Rainwater leaders.
4. Flat bar guardrails and tube handrailing at metal stairs.
5. Trash enclosure gate.
6. Mechanical roof screens.
7. Slotted-Channel Framing (Unistrut)

- B. Related Sections:

1. Division 03 Section "Cast-in-Place Concrete" for installing anchor bolts, steel pipe sleeves, slotted-channel inserts, wedge-type inserts, and other items cast into concrete.
2. Division 04 Section "Concrete Unit Masonry".
3. Division 05 Section "Structural Steel Framing".
4. Division 09 Section "Exterior Painting".

1.3 SUBMITTALS

- A. Product Data.

- B. Shop Drawings: Show fabrication and installation details for metal fabrications.

1. Include plans, elevations, sections, and details of metal fabrications and their connections. Show weld and fastener type and sizes. Show anchorage and accessory items.

- C. Welding certificates.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified professional engineer.

- B. Mill Certificates: Signed by manufacturers of stainless-steel certifying that products furnished comply with requirements.

- C. Welding certificates.
- D. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers certifying that shop primers are compatible with topcoats.

1.5 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
- B. Welding Qualifications: Qualify procedures and personnel according to the following:
 - 1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."

1.6 PROJECT CONDITIONS

- A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

1.7 COORDINATION

- A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.
- B. Coordinate installation of anchorages and steel weld plates and angles for casting into concrete. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

PART 2 - PRODUCTS

2.1 METALS, GENERAL

- A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

2.2 FERROUS METALS

- A. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
- B. Steel Pipe: ASTM A 53 Grade B for handrails unless otherwise indicated.
- C. Cast Iron: Either gray iron, ASTM A 48/A 48M, or malleable iron, ASTM A 47/A 47M, unless otherwise indicated.

2.3 FASTENERS

- A. General: Unless otherwise indicated, provide Type 304 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.
 - 1. Provide stainless-steel fasteners for fastening aluminum.
- B. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 307, Grade A; with hex nuts, ASTM A 563; and, where indicated, flat washers.
- C. Anchor Bolts: ASTM F 1554, Grade 36, of dimensions indicated; with nuts, ASTM A 563; and, where indicated, flat washers.
 - 1. Hot-dip galvanize or provide mechanically deposited, zinc coating where item being fastened is indicated to be galvanized.
- D. Plain Washers: Round, ASME B18.22.1.
- E. Lock Washers: Helical, spring type, ASME B18.21.1.
- F. Cast-in-Place Anchors in Concrete: Either threaded type or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A 47/A 47M malleable iron or ASTM A 27/A 27M cast steel. Provide bolts, washers, and shims as needed, all hot-dip galvanized per ASTM F 2329.

2.4 MISCELLANEOUS MATERIALS

- A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.
- B. Shop Primers: Provide primers that comply with the scheduled finish system and Division 09 painting Sections.
- C. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.
 - 1. Use primer containing pigments that make it easily distinguishable from zinc-rich primer.
- D. Epoxy Zinc-Rich Primer: Complying with MPI#20 and compatible with topcoat.
- E. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.
- F. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.

2.5 FABRICATION, GENERAL

- A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain

structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

- B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- D. Form exposed work with accurate angles and surfaces and straight edges.
- E. Weld corners and seams continuously to comply with the following:
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
- F. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.
- G. Fabricate seams and other connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.
- H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.
- I. Provide for anchorage of type indicated, coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

2.6 MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.
- B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.
- C. Prime miscellaneous framing and supports with zinc-rich primer where indicated.

2.7 RAINWATER LEADERS

- A. All rainwater leaders shall be galvanized schedule 40 steel pipe with welded knife blade brackets as indicate, with welded joints. Terminate all downspouts at grade with cast-iron

downspout shoes with clean out per the Architectural Drawings and connected to storm drain system.

- B. Prime rainwater leader welded joints and cast-iron downspout boots with zinc-rich primer.

2.8 BAR GUARDRAILS AND TUBE HANDRAILS AND BRACKETS

- A. Bar Guardrails and Tube Handrails: Provide as indicated on Drawings.
- B. Tube Railing Support Brackets: Provide welded and painted support brackets as indicated. Provide 6-inches from each rail termination and maximum 4-feet on center evenly spaced along rail.

2.9 TRASH ENCLOSURE GATES

- A. Provide as indicated on Drawings.
- B. Hinges: Shall be DARO (651) sales@daro-ind.com 483-2798 weld-on Butt or Cam-Lift gate hinges quantity and sizes as required to support gate weight and function.

2.10 MECHANICAL ROOF SCREENS

- A. Basis-of-Design Product: Refer to Section 07 42 13 Metal Composite Wall Panel System.

2.11 SLOTTED CHANNEL FRAMING (UNISTRUT)

- A. Slotted Channel Framing: Cold-formed metal box channels (struts) complying with MFMA-4.
- B. Channels Framing: Provide Unistrut, P-1000, 1-5/8- inch by 1-5/8- inch, 12-gauge channels unless otherwise indicated.
- C. Accessories: Provide as indicated on Drawings or as required for complete structural system.
- D. Material: Galvanized steel, ASTM A 653, structural steel, Grade 33, with G90 coating; 0.108-inch nominal thickness.
- E. Manufacturer: Unistrut or approved equal.

2.12 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish metal fabrications after assembly.
- C. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

2.13 STEEL AND IRON FINISHES

- A. Galvanizing: All exterior work shall be hot-dip galvanize to comply with ASTM A 153/A 153M for steel and iron hardware and with ASTM A 123/A 123M for other steel and iron products. Hot-dip galvanize interior work as indicated.
 - 1. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.
- B. Shop prime iron and steel items not indicated to be galvanized unless they are to be embedded in concrete, sprayed-on fireproofing, coated with intumescent paint, or unless otherwise indicated.
- C. Preparation for Shop Priming: Prepare surfaces to comply with requirements indicated below:
 - 1. Items Indicated to Receive Zinc-Rich Primer: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
 - 2. Items Indicated to Receive Primers Specified in Division 09 Section "High-Performance Coatings": SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
 - 3. Other Items: SSPC-SP 3, "Power Tool Cleaning."
- D. Shop Priming: Apply shop primer to comply with SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.
 - 1. Stripe paint corners, crevices, bolts, welds, and sharp edges.
 - 2. For steel in rated assemblies, shop prime with product compatible with fire resistive coating.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.
- B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.
- C. Field Welding: Comply with the following requirements:
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

- D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.
- E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.
- F. Corrosion Protection: Coat concealed surfaces of aluminum that will come into contact with grout, concrete, masonry, wood, or dissimilar metals with the following:
 - 1. Extruded Aluminum: Two coats of clear lacquer.

3.2 INSTALLING MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.
- B. Anchor supports for operable partitions securely to and rigidly brace from building structure.
- C. Support steel girders on solid grouted masonry, concrete, or steel pipe columns. Secure girders with anchor bolts embedded in grouted masonry or concrete or with bolts through top plates of pipe columns.
 - 1. Where grout space under bearing plates is indicated for girders supported on concrete or masonry, install as specified in "Installing Bearing and Leveling Plates" Article.
- D. Install pipe columns on concrete footings with grouted baseplates. Position and grout column baseplates as specified in "Installing Bearing and Leveling Plates" Article.
 - 1. Grout baseplates of columns supporting steel girders after girders are installed and leveled.

3.3 ADJUSTING AND CLEANING

- A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
 - 1. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.
- B. Touchup Painting: Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint are specified in Division 09 painting Sections.
- C. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780.

END OF SECTION

SECTION 32 13 13

SITE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

- A. The contractor shall provide all materials, equipment and labor necessary to furnish and place ready-mix cast-in-place concrete, and shall form, mix, place, consolidate, finish, cure, repair and per- form all appurtenant work necessary to produce finished concrete complete in place as shown on the Drawings and as specified herein.
- B. This Section includes the following as indicated on the Landscape drawings:
 - 1. Final subgrade preparation and paving base.
 - 2. Concrete walks, pedestrian paving, steps, ramps, seat walls, landscape retaining walls, mowing edges, bands, and curbing.
 - 3. Colored concrete finished walks and paving.
- C. Related Sections:
 - 1. Section 31 20 00 – Earth Moving

1.2 REFERENCES AND STANDARDS

- A. Federal Specifications and Standards:
 - 1. PS 1 U.S.Product Standard for Concrete Forms, Class I.
 - 2. PS 20 U.S. Product Standard for American Softwood Lumber.
 - 3. UU-B-790A Building Paper, Vegetable Fiber (Kraft, Waterproofed, Water (Int. Amd.) Repellant and Fire Resistant).
- B. State of California (Caltrans) Standards:
- C. Americans with Disabilities Act and ADA
 - 1. Accessibilities Guidelines (ADAAG) Appendix A of 28 CFR Part 35, Title II.
- D. Commercial Standards:
 - 1. ACI 301 Specifications for Structural Concrete for Buildings.
 - 2. ACI 304 Recommended Practice for Measuring, Mixing and Placing Concrete.
 - 3. ACI 305 Recommended Practice for Hot Weather Concreting.
 - 4. ACI 306 Recommended Practice for Cold Weather Concreting.
 - 5. ACI 308 Recommended Practice for Curing Concrete.
 - 6. ACI 315 Details and Detailing of Concrete Reinforcement.
 - 7. ACI 318 Building Code Requirements for Structural Concrete and Commentary.
 - 8. ACI 347 Recommended Practice for Concrete Formwork.
 - 9. ASTM A 185 Specification for Steel Welded Wire Fabric, Plain, for Concrete Reinforcement.

10. ASTM A 615 Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement.
11. ASTM C 31 Practice for Making and Curing Concrete Test Specimens in the Field.
ASTM C 33 Specification for Concrete Aggregates.
12. ASTM C 39 Test Method for Compressive Strength of Cylindrical Concrete Specimens.
13. ASTM C 94 Specification for Ready-Mixed Concrete.
14. ASTM C 143 Test Method for Slump of Hydraulic Cement Concrete.
15. ASTM C 150 Specification for Portland Cement.
16. ASTM C 309 Specification for Liquid Membrane-Forming Compounds for Curing Concrete.
17. ASTM C 494 Specification for Chemical Admixtures for Concrete.
18. ASTM C 1077 Standard Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation.
19. ASTM D 1751 Specification for Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Non-extruding and Resilient Bituminous Types).
20. AWS D1.4 Structural Welding Code - Reinforcing Steel.
21. CRSI MSP-1 Concrete Reinforcing Steel Institute Manual of Standard Practice.
22. CBC California Building Code.

1.3 QUALITY ASSURANCE

- A. All site concrete work shall comply with these specifications and all applicable sections of the above named References and Standards.
- B. Design Criteria:
 1. Concrete: ACI 301, Chapter 3.
 2. The contractor shall set and maintain concrete forms and perform finishing operations so as to ensure that the completed work is within the tolerances shown on the Drawing and as specified herein. Surface defects and irregularities are defined as finishes and are to be distinguished from tolerances. Permissible deviations for cast-in-place concrete structures shall not exceed + 1/4-inch.
- C. Testing: Performed by a qualified independent testing laboratory selected and paid for by the Owner. The cost of re-testing rejected work shall be deducted from the amount due the Contractor for work under this section.
- D. Record of Work: Maintain field records of time, date of placing, curing, and removal of forms of concrete in each portion of work. Such record shall be available to the Architect for examination at any time.
- E. Sample Panels: Before installing concrete work, provide sample panels, of all specified finishes, minimum 3 feet x 3 feet, using specified materials. Show color, texture, pattern, edging, and joint treatments. Correct and rebuild sample panels until Architect's acceptance of the work. Retain panels during construction as a standard for completed concrete paving work.
- F. Do not change source or brands of cement and aggregate materials during the course of the work.
- G. Batch Plant Testing

1. Continuous batch plant inspection may be waived by the registered design professional, subject to approval by the enforcement agency under the following condition:
 - a. The concrete plant complies fully with the requirements of ASTM C94, Sections 9 and 10, and has a current certificate from the National Ready Mixed Concrete Association or another agency acceptable to the enforcement agency. The certification shall indicate that the plant has automatic batching and recording capabilities.
2. When Continuous batch plant inspection is waived, the following requirements shall apply:
 - a. An approved agency shall check the first batch at the start of the day to verify materials and proportions conform to the approved mix design.
 - b. A licensed weighmaster shall positively identify quantity of materials and certify each load by a batch ticket.
 - c. Batch tickets, including material quantities and weights shall accompany the load, shall be transmitted to the inspector of record by the truck driver with load identified thereon. The load shall not be placed without a batch ticket identifying the mix. The inspector of record shall keep a daily record of placements, identifying each truck, its load, and time of receipt at the jobsite, and approximate location of deposit in the structure and shall maintain a copy of the daily record as required by the enforcement agency.

- H. Concrete finisher shall have a minimum 3 years' experience finishing high-volume fly ash concrete.
- I. Slip Resistance: Concrete walk surfaces shall have a minimum wet and dry coefficient friction of 0.65 when tested in accordance with ASTM C1028.

1.4 SUBMITTALS

- A. Certificate of Compliance: Certificates of Compliance shall be provided for all products and materials proposed to be used under this Section.
- B. Mix Designs: Submit concrete mix designs for each required concrete type. Obtain the Architect's written approval before placing concrete.
- C. Reinforcement Shop Drawings: Indicate bar sizes, spacing, locations and quantities of reinforcing steel and wire fabric, bending and cutting schedules and supporting and spacing devices.
- D. Product data:
 1. Submit complete materials list of items proposed for the work. Identify materials source.
 - a. Submit documentation of recycled content for products with specified recycled content.
 2. Submit admixture, curing compound, retarder, and accessory item product data.
 3. Submit material certificates for aggregates, reinforcing, joint fillers and sealants.
 - a. Submit documentation of recycled content for products with specified recycled content.
- E. Submit concrete delivery tickets. Show the following:

1. Batch number.
2. Mix by class or sack content with maximum size aggregate.
3. Admixtures.
4. Air content.
5. Slump.
6. Time of loading.

F. Submit concrete test reports.

G. Submit minimum 8" x 8" colored concrete samples utilizing cement and aggregate proposed for the work.

H. Sealants: Submit samples and test data demonstrating that the proposed sealants will adhere to the surfaces to which they will be applied.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Reinforcing: Unload and store on timber skids and keep free of mud.

B. Concrete

1. Hauling Time: Discharge all concrete transmitted in a truck mixer, agitator or other transportation device within 1 1/2 hours, or 300 revolutions of the drum after mixing water has been added, whichever is greater.

C. Store decorative exposed aggregates in segregated area to prevent mixing with foreign materials.

D. Deliver curing materials, admixtures, and retarders in manufacturer's standard unopened containers with labels legible and intact. Store and protect from freezing and damage.

1.6 PROJECT CONDITIONS

A. Work notification: Notify Architect at least 24 hours prior to installation of concrete.

B. Establish and maintain required lines and grade elevations. Refer to notes on the grading plans and Section covering site grading and/or earth moving

C. Environmental Requirements

1. Cold Weather Placement: When depositing concrete when the mean daily temperatures are below 40 degrees F., comply with recommendations in ACI 306. Maintain concrete temperature at a minimum of 55 degrees F. for sections having a minimum dimension of less than 12 inches, or 50 degrees F. for sections having a minimum dimension of 12 inches or greater, for not less than 72 hours after depositing. The specified non-chloride accelerator or high early strength Type III cement may be used when approved by the Architect. Do not place concrete on days when the temperature at 9:00 a.m. is below 30 degrees F.
2. Hot Weather Placement: When depositing concrete in hot weather, follow the recommendations in ACI 305. The temperature of concrete at time of placement shall not exceed 90 degrees F. Protect to prevent rapid drying.

- D. Do not install concrete work over wet, saturated, muddy, or frozen subgrade.
- E. Protect adjacent work.
- F. Provide temporary barricades and warning lights as required for protection of project work and public safety.

1.7 GEOTECHNICAL ENGINEER

- A. The Engineer will inspect subgrade and aggregate base prior to installation of concrete work.

1.8 LAYOUT OF THE WORK

- A. A licensed surveyor or registered civil engineer shall lay out and establish all lines, levels, grades and positions of all parts of the work.

PART 2 - PRODUCTS

2.1 FORM AND FALSEWORK MATERIALS

- A. Except as otherwise expressly accepted by the DISTRICT, all lumber brought on the job site for use as forms, shoring, or bracing shall be new material.
- B. Materials for concrete forms, formwork and falsework shall conform to the following requirements:
 - 1. Lumber shall be Douglas Fir or Southern Pine, construction grade or better, in conformance with U.S. Product Standard PS 20.
 - 2. Plywood for concrete formwork shall be new, waterproof, synthetic resin bonded, exterior type Douglas Fir or Southern Pine plywood manufactured especially for concrete formwork and shall conform to the requirements of PS 1 for Concrete Forms, Class I, and shall be edge sealed.
 - 3. Form materials shall be metal, wood, plywood, or other approved material that will not adversely affect the concrete and will facilitate placement of concrete to the shape, form, line and grade shown. Metal forms shall be an approved type that will accomplish such results.
- C. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces, will not impair subsequent treatments of concrete surfaces, and is free of oils, waxes, and other materials harmful to concrete.

2.2 FORM TIES

- A. Form ties shall be provided with a plastic cone or other suitable means for forming a conical hole to insure that the form tie may be broken off back of the face of the concrete. The maximum diameter of removable cones for rod ties, or of other removable form-tie fasteners having a circular cross-section, shall not exceed 1-1/2 inches; and all such fasteners shall be such as to leave holes of regular shape for reaming. Form Ties shall be Burke Penta-Tie System, Richmond Snap-Tys, or equal.

2.3 REINFORCEMENT STEEL

- A. General: All reinforcement steel for all cast-in-place reinforced concrete construction shall conform to the following requirements:
1. Use 60,000 psi yield strength for #5 and larger bars; 40,000 psi yield strength for #4 and smaller bars; bar reinforcement shall conform to ASTM A 615 for Grade 60 Billet Steel Reinforcement with supplementary requirement S-1, or as otherwise shown.
 2. Welded wire fabric, 6" x 6", w 1.4 x w 1.4, reinforcement shall conform to ASTM A 185 and the details shown.
- B. Accessories:
1. Accessories shall include all necessary chairs, slab bolsters, concrete blocks, tie wires, dips, supports, spacers, and other devices to position reinforcement during concrete placement. Wire bar supports shall be CRSI Class 1 for maximum protection with a 1/8-inch minimum thickness of plastic coating which extends at least 1/2 inch from the concrete surface. Plastic shall be gray in color.
 2. Concrete blocks (dobies), used to support and position reinforcement steel, shall have the same or higher compressive strength as specified for the concrete in which it is located. Wire ties shall be embedded in concrete block bar supports.

2.4 MATERIALS

- A. Portland cement: ASTM C150-12, Type II/V low alkali, natural color; ACI 301 2.1.
- B. Pozzolans: Coal Fly Ash: ASTM C618; Class C or Class F.
- C. Aggregate:
1. Provide ASTM C33 normal weight aggregates, size between 3/4" and 1" and with minimum size #4, clean, uncoated crushed stone or gravel coarse aggregate free of materials which cause staining or rust spots; fine aggregate shall be clean natural sand; ACI 301 2.4, of which at least 12% passes a 50-mesh screen.
 2. Recycled crushed concrete aggregate, ASTM C33 shall be used subject to approval by the Structural Engineer; minimum 25% desired.
- D. Water: Clean, fresh, and potable.
- E. Admixtures:
1. Air-entraining admixture: ASTM C260; ACI 2.2; add as required in ACI 301 3.4.1.
 2. Water-reducing admixture: ASTM C494/A; ACI 301 2.2; Euclid, Master Builders Pozzoloth, WR Grace or equivalent.
 3. Integral concrete colorant: Light-fast, lime proof, finely divided mineral oxide terrazzo matrix coloring. Davis Colors; Solomon Co., L. M. Scofield Company, or equal.
 4. The concrete shall not contain calcium chloride or admixtures containing more than 0.05% chloride ions or thiocyanates.
- F. Waterproofing admixture for water feature concrete: XYPEX Admix C-500.

2.5 MIXES

- A. Provide ASTM C94 ready-mixed concrete. Batch mixing at site is not acceptable; ACI 301 3.8.
 - 1. Strength:
 - a. Pedestrian Paving: 3,000 psi minimum at 28 days; ACI 301 3.2, ASTM C31.
 - b. Vehicular Paving: 3,500 psi minimum at 28 days; ACI 301 3.2
 - c. All other concrete 2,500 psi minimum at 28 days; ACI 301.3.2.
 - 2. Slump range: 2" to 4" maximum; ACI 301 3.5. (3" slump for integral color concrete paving)
 - 3. Durability: ACI 301 3.4.
 - 4. Integral concrete colorant: refer to Schedule of Landscape Construction Finishes on the drawings.
 - 5. When using Top-Cast, a 6 sack mix (564 lbs/256 kg cement) should always be used to achieve correct etch.
- B. Maximize cement content of mix:
 - 1. Use 30-35% Fly Ash content of cementitious material.
- C. Provide an approved water-reducing admixture in all concrete. Maximum amount of water shall not exceed 45% by weight of [cement + pozzolans].
- D. Provide an air-entraining admixture in all concrete. Air content 5% to 7%.
- E. Indicate water added to mix at job site on each delivery ticket. Show quantity of water added. Site water tempered mixes exceeding specified slump range will be rejected as not complying with specification requirements.
- F. Mixes for Washed Exposed Aggregate Concrete paving and curbs shall be Gap-Graded to maximize coarse aggregate content to attain a dense, uniform aggregate exposure.
- G. Water feature structure and paving: add waterproofing admixture in accordance with manufacturer's printed instructions for the use intended.

2.6 ACCESSORIES

- A. Aggregate Base Course: Untreated base courses shall be installed under paving where indicated in the Drawings. Material shall be 3/4 inch maximum size broken stone or crushed gravel conforming to the requirements of Class 2 aggregate base of Section 26 of the State Specifications.
- B. Joint Filler: ASTM D1752 Type I, premolded non-extruding neoprene sponge rubber, thickness indicated; with removable polystyrene or PVC strip mechanically attached to the top edge.
- C. Expansion Joint Dowels: No. 4 smooth steel dowels; cover one end with capped cardboard dowel sleeve.
- D. Curing Compound: ASTM C309, Type 1-D, Class A non-yellowing, non-staining liquid membrane-forming type containing a fugitive dye. Chlorinated rubber compounds not acceptable for exterior use.

- E. Joint Sealants: Two-component polysulfide or polyurethane elastomeric type complying with FS TT-S-00227, self-leveling, designed for foot traffic.
- F. Epoxy-Bonding Adhesive: ASTM C 881, two-component epoxy resin, capable of humid curing and bonding to damp surfaces, of class and grade to suit requirements, and as follows:
 - 1. Type II, non-load bearing, for bonding freshly mixed concrete to hardened concrete.
- G. Cleavage Membrane/Vapor Barrier: 10 mil; black, polyvinyl chloride sheet; fungus resistant.
- H. Form Release Agent: Non-staining chemical form release agent free of oils, waxes, and other materials harmful to concrete.
- I. Step Nosings:
 - 1. Embedded Abrasive Strips: Balco, 800-767-0082, AB-3 Block Strip, color: black, or equal.
- J. Prefabricated Drainage Composite: Three dimensional waffle pattern, high impact polymeric sheet with geotextile backing sheet. Compressive strength 15,000psi; Miradrain 6000 or equal.
- K. Top-Cast surface retarder: www.DaytonSuperior.com

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine the substrate under which the concrete work is to be installed. Notify the Architect, in writing, of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.
- B. All foundation bearing surfaces shall be inspected and approved by the Geotechnical Engineer prior to start of formwork.
- C. All formwork and reinforcing shall be reviewed and approved by the Architect prior to placement of concrete.

3.2 LINES AND LEVELS

- A. Finished grades shown on Plans are given in feet and decimals of feet and are to be the top of all graded or paved surfaces. Slope uniformly between given spot elevations unless otherwise indicated.
- B. Surfaces shall be true to within 1/8 inch when tested in any direction with a 10 foot straightedge. There shall be no pools of water standing on the pavement after a rain.
- C. Transition between changes in vertical gradient of walks and paving shall be smooth and gradual with no abrupt or sharp changes.
- D. Horizontal curves and radii shall be laid out tangent to adjacent straight lines or adjacent compound curves. Curves shall be smooth and flowing.

- E. Horizontal layout shall not vary more than 1 inch from dimensions indicated on the Drawings. Make minor field adjustments in the layout as necessary to make radii tangent and curves smooth and flowing as indicated on the Drawings.

3.3 PREPARATION

- A. Preparation of Subgrade: specified in Section 31 2100 - Site Grading.
- B. Aggregate Base
 - 1. Install under paving where indicated on the Drawings.
 - 2. Do not install until subgrade has been approved by the Geotechnical Engineer.
 - 3. Spread the aggregate base on the prepared subgrade to such a depth that when thoroughly compacted it will conform to the grades and dimensions shown on the Drawings. Spread and compact in accordance with Section 26-1 of the State Specifications. The finished surface shall be smooth, hard, and true to line and grade.
- C. Remove loose material and debris from base surface before placing concrete.

3.4 FORMWORK AND REINFORCING

- A. General: Conform with ACI 301, Chapter 4.
- B. Install, align, and level forms. Stake and brace forms in place. Maintain following grade and alignment tolerances:
 - 1. Top of form: Maximum 1/8" in 10'-0".
 - 2. Vertical face: Maximum 1/4" in 10'-0".
- C. Construct formwork carefully so that straight lines are perfectly tangent to radii, curves are smooth and flowing, and transitions between changes in vertical gradient of curbs, walls, walks and paving are smooth and gradual with no abrupt or sharp changes.
- D. Coat form surfaces in contact with concrete with form release agent. Clean forms after each use and coat with form release agent as necessary to assure separation from concrete without damage.
- E. Chamfer Strips: Where chamfered edges are indicated on the drawings, install wood chamfer strips in the forms; tooling of chamfers will not be allowed.
- F. Locate, place, and support reinforcement as indicated on the Drawings.
 - 1. Paving:
 - a. Provide a single layer of welded wire fabric in all concrete slabs-on-grade, paving and walks unless otherwise indicated.
 - b. Where indicated on the Drawings, provide reinforcing bars in concrete paving.
 - 2. Provide reinforcing bars in walls, curbs, steps, and other locations indicated, adequately supported and secured to prevent displacement.
- G. Install, set, and build-in work furnished under other specification sections. Provide adequate notification for installation of necessary items.

- H. Install pipe sleeves for irrigation system furnished under Section 32 8400. Stake location of irrigation sleeves.

3.5 INSTALLATION

A. Concrete Placement: (ACI 301 5.5.3)

1. Comply with ACI 304 "Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete", and as specified.
2. Protect concrete from physical damage or reduced strength due to weather extremes during mixing, placing, and curing. In cold weather comply with ACI 306, "Recommended Practice for Cold Weather Concreting". In hot weather comply with ACI 305, "Recommended Practice for Hot Weather Concreting."
3. Moisten base to provide a uniform dampened condition at the time concrete is placed. Verify manholes or other structures are at required finish elevation and alignment before placing concrete.
4. Place and spread concrete to the full depth of the forms. Use only square-end shovels or concrete rakes for hand-spreading and consolidating concrete. Exercise care during spreading and consolidating operations to prevent segregation of aggregate and dislocation of reinforcement.
5. Free fall shall not exceed eight (8) feet in walls and columns, or five (5) feet in other elements.
6. Place concrete in a continuous operation between expansion joints. Provide construction joints when sections cannot be placed continuously.
7. Place concrete in one course, monolithic construction, for the full width and depth of concrete work. Provide minimum 4-inch-thick walks and paving, except as otherwise indicated.
8. Strike-off and bull-float concrete after consolidating. Level ridges and fill voids. Check surface with a 10'-0" straightedge. Fill depressions and refloat repaired areas. Darby the concrete surface to provide a smooth level surface ready for finishing.
9. Do not clean concrete trucks and equipment on site; use a previously designated approved site that meets environmental regulation.

3.6 JOINTS

A. Construction Joints: locate and install where indicated, or if not indicated, so as to not impair the strength and appearance of the structure.

1. Provide keyways at least 1-1/2 inch deep in joints in walls and between walls and footings.
2. Use preformed metal construction joints in paving and slabs.

B. Control Joints in retaining walls and seat walls: install vertical V-joints formed with 3/4" beveled wood chamfer strips spaced at 10 feet on center minimum, and at changes in direction, or as noted on drawings. Align joints with adjacent paving joints and markings.

C. Expansion Joints:

1. Scope: install expansion joints in the following locations, whether shown on the drawings or not:
 - a. Concrete paving: minimum 20' O.C. and at all intersections.

- b. At vertical surfaces: install joints without dowels at all building walls and other vertical structures.
 - 2. Hold joint filler straight, true to line and at proper level by stapling to 2X wood form; pour adjacent slabs separately.
 - 3. Neatly tool edges of joint flush with removable strip.
 - 4. Carefully remove the removable strip when concrete is sufficiently set.
 - 5. Avoid sprawling tooled joint edges; any damaged edges shall be repaired to the satisfaction of the Architect.
- D. Score Marks:
- 1. Tool or saw-cut score marks as indicated on the drawings.
 - 2. Tool straight lines with neatly formed radius edges; conform with details shown on the Drawings.
 - 3. Saw-cut straight lines continuous to vertical surfaces

3.7 FINISHES

- A. Perform concrete finishing using mechanical or hand methods as required. Finishes shall match approved samples.
- B. Integral Color Concrete:
- 1. Do not use magnesium floats or tools.
 - 2. Do not use visquine for curing.
 - 3. Do not allow excessive surface water.
- C. Upon completion of floating, and after bleed water has disappeared and concrete can sustain foot pressure with nominal indentation, cut concrete away from forms. Work edges with an edging tool. Round edges to 1/4" radius.
- D. Steps: To Receive Broom Finish:
- 1. Neatly tool nosings as detailed on the Drawings.
 - 2. Steel trowel to a smooth, hard finish.
 - 3. Using a stiff broom, strike clean, crisp broom mark lengthwise along treads and risers.
 - 4. Finish shall be uniform throughout in color and texture.
 - 5. Finish of riser faces shall match finish of treads.
- E. Paving to Receive Broom Finish:
- 1. Screed and float paving to a smooth, even grade in accordance with the Drawings using overhead screeds where necessary to establish flow lines or grade breaks.
 - 2. Steel trowel to a smooth, hard finish.
 - 3. Using a stiff broom, strike clean, crisp broom marks across paving at right angles to the length of the ramp.
 - 4. Finish shall be uniform throughout in color and texture.
- F. Paving to Receive Top-Cast Finish:

1. Screed and float paving to a smooth, even grade in accordance with the Drawings using overhead screeds where necessary to establish flow lines or grade breaks.
2. Bull float a second time.
3. Moisture is needed in the top surface to react with the Top-Cast product. Use the 05 Top Cast product to achieve a sandblast finish. Apply the Top-Cast with a Hudson type sprayer with an adjustable nozzle or a fan type nozzle with a (.3 or .5 GPM). Apply Top-Cast with a sprayer at a rate of approximately 200-300 sf. ft. gal (4.9-7.4 sq. m/L)
4. The Top-Cast will dry on the surface in about 1-2 hours after application depending on ambient temperature and humidity.
5. Generally, wash the slab 12 to 16 hours later, this is totally dependent upon the mix design and ambient temperatures as well as job site conditions and the washing procedure used.
6. Use a power washer with about 1500 PSI and a 25-degree fan nozzle. Wash about 6-10 inches away.
7. Finish shall be uniform throughout in color and texture.

G. Curbing, Headers, Bands and Dividers:

1. Neatly tool edges as detailed on the Drawings.
2. Bring exposed surfaces to a hard, smooth steel trowel finish and then finish with a fine hair broom to produce a uniform crisp, light broom finish parallel to the length of headers and dividers.
3. Finish of curb faces shall match finish of tops.

H. Walls, Seatwalls and Curbwalls:

1. Bring exposed surfaces to a hard, smooth steel trowel finish.
2. Finish shall be uniform in texture and color.

3.8 SEALANTS

- A. Work under this Section includes furnishing and installation of all sealants, backing rods, primers and associated work and materials in expansion joints in concrete work.
- B. Prime joints and install per manufacturers printed instructions.
- C. Hold sealant flush with paving surface.
- D. Sealant shall be smooth with no voids or irregularities.

3.9 ABRASIVE STEP NOSING

- A. Form an appropriately sized channel in the stairs where the abrasive bar system is to be installed.
 1. Size the channel 1/16 inch wider than the abrasive bar on each side.
 2. This can be achieved by casting the channel into poured concrete stairs, or by cutting, grinding or routing the channel into existing concrete.
- B. Install with a nominal 1/16" (2mm) exposed above the stair tread surface.

- C. Ensure that the channel is level, properly configured, and of the correct width and depth for the bar to be installed.
- D. Use compressed air or a brush to remove dust, dirt and debris from the channel prior to installation of the abrasive bars.

3.10 REPAIR OF SURFACE DEFECTS (ACI 301 9.1)

- A. Patching of tie holes is required.

3.11 CURING (ACI 301 12.1)

- A. Maintain concrete temperature as uniformly as possible, and protect from rapid atmospheric temperature changes.
- B. Apply curing compound in accordance with manufacturer's printed instructions.

3.12 FIELD QUALITY CONTROL (ACI 301, Chapter 16)

- A. Provide field quality control testing and inspection during concrete operations.
- B. Contractor shall provide adequate notice, cooperate with, provide access to the work, obtain samples, and assist test agency and their representatives in execution of their function.
- C. Testing:
 - 1. Provide slump test on first load of concrete delivered each day and whenever requested due to changes in consistency or appearance of concrete.
 - 2. Strength testing:
 - a. Provide 1 set of 3 test specimens for each 50-cu. yd. placed in any one day. Secure samples in accordance with ASTM C172 and mold specimens in accordance with ASTM C31.
 - b. Test 1 specimen at 7 days and 2 specimens at 28 days in accordance with ASTM C39.
 - c. Furnish copies of field records and test reports as follows:
 - 2 copies to Architect
 - 1 copy to Contractor
 - 1 copy to Ready Mix Supplier
 - 3. Record the exact location of the concrete in the work represented by each set of cylinders and show on test reports.
 - 4. Provide an insulated moist box for protection of the test cylinders until shipped to the laboratory.

3.13 MISCELLANEOUS CONCRETE REQUIREMENTS

- A. All other concrete work indicated on the drawings and/or required to complete all the work, shall be provided and installed, even though not specifically mentioned herein.

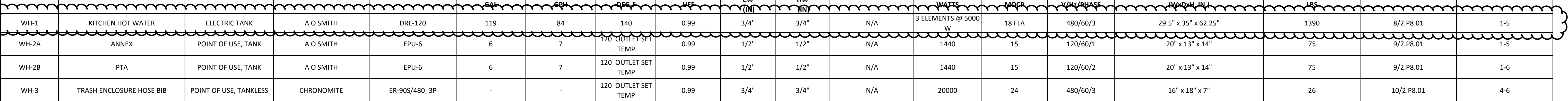
3.14 PROTECTION

- A. Protect concrete work from damage due to construction and vehicular traffic until final acceptance. Exclude construction and vehicular traffic from concrete pavements for at least 14 days.

3.15 CLEANING

- A. Perform cleaning during installation of the work and upon completion of the work.
- B. Remove all bituminous materials, form release agents, curing compounds or other materials employed in the work which would prevent proper application of sealants, liquid water proofing or other specified treatments.
- C. Remove from site all excess materials, debris, and equipment. Repair damage resulting from concrete operations.
- D. Repair any damage done to adjacent work to the satisfaction of the Owner.

END OF SECTION



1. DRAIN RELIEF VALVE TO CODE APPROVED POINT OF DISCHARGE
2. PROVIDE DRAIN PAN BELOW UNIT
3. INSULATE AROUND TANK
4. PROVIDE ISOLATION VALVES AND ELECTRICAL DISCONNECT AT TANK CONNECTION
5. PROVIDE WITH THERMOSTATIC MIXING VALVE
6. PROVIDE WITH A-810VR-2.5GPM HOSE BIB ADAPTOR & NEMA 4 CABINET

PLUMBING FIXTURE SCHEDULE												
TAG	FIXTURE	TYPE	BASIN		FAUCET/FLUSHOMETER		ROUGH-INS				MAX FLOW	NOTES
			MANUF.	MODEL	MANUF.	MODEL	WASTE	VENT	CW	HW		
WC-1	WATER CLOSET	ONE PIECE - FLUSHOMETER	AMERICAN STANDARD	AFWALL	AMERICAN STANDARD	SELECTRONIC 606B.111	3"	2"	1"	-	1.1 GPF	1,2,3,7
UR-1	URINAL	ONE PIECE - FLUSH URINAL SYSTEM	AMERICAN STANDARD	WASHBROOK	AMERICAN STANDARD	SELECTRONIC 606B.013	2"	2"	3/4"	-	0.125 GPF	1,3,7
LV-1	LAVATORY	WALL HUNG - SENSOR, METERING FAUCET	AMERICAN STANDARD	LUCERNE 0355.012	CHICAGO FAUCETS	116.101.AB.4	2"	1-1/2"	1/2"	1/2"	0.35 GPM	1,3,4,8,10,11
SK-1	CLASSROOM SINK	SELF-RIMMING, STAINLESS, SINGLE BOWL	ELKAY	DRKAD 2517C	CHICAGO FAUCETS	201-RSGN2AE35VAB	2"	1-1/2"	1/2"	1/2"	1.5 GPM	3
MS-1	MOP SINK	FLOOR MOUNT RECEPTOR WALL MOUNT FAUCET	FLORESTONE	85-NEO ANGLE	AMERICAN STANDARD	8350.234	3"	2"	1/2"	1/2"	5 GPM	3
HB-1	HOSE BIBB	RECESSED, IN WALL CABINET	ZURN	Z1330-C	-	-	-	-	1/2"	1/2"	1.5 GPM	6
DF-1	DRINKING FOUNTAIN	FILTERED - HIGH/LOW	HAWS	1117L	-	-	2"	1-1/2"	3/4"	-	-	3, 5
BF-1	BOTTLE FILLER	WALL MOUNTED, PUSH BUTTON	HAWS	1920	-	-	-	-	1/2"	-	-	3, 5, 9

1. ALL BATHROOM FIXTURES SHALL BE HARD-WIRED. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V/1PH POWER TO TRANSFORMER. TRANSFORMER PROVIDED BY PLUMBING CONTRACTOR BUT INSTALLED BY ELECTRICAL CONTRACTOR PER 2. E.02.1
2. MAP SCORE OF 1000 MINIMUM
3. ALL FIXTURES SHALL BE ADA COMPLIANT
4. PROVIDE 0.35GPM AERATOR
5. 120V/60HZ POWER. NO COOLING, INTEGRAL WATER FILTER20V/60HZ POWER REQUIRED. NO COOLING, INTEGRAL WATER FILTER
6. PROVIDE WITH 1.5GPM FLOW RESTRICTOR OMNI 810 SERIES, PROVIDE WITH A SINGLE CONNECTION TO HW OR CW AS SPECIFIED ON DWGS
7. PROVIDE WITH HARDWARE KIT AMERICAN STANDARD PROOF-HAC
8. PROVIDE WITH HARDWARE KIT CHICAGO FAUCETS 243.259.D-3
9. PROVIDE WITH BACK PANEL AS REQUIRED BASED ON INSTALLATION APPLICATION INDICATED IN ARCHITECTURAL PLANS
10. PROVIDE SINGLE OCCUPANCY LAVATORIES WITH POINT OF USE MIXING VALVE SET AT 105F, SIMILAR TO LEONARD 170LF.
11. METERED FAUCETS SHALL REMAIN OPEN FOR MINIMUM 10 SECONDS.

PLUMBING DRAIN AND CLEANOUT SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER	MODEL	COVER / STRAINER TYPE	NOTES
FD-1	FLOOR DRAIN (GENERAL)	ZURN	Z415B	5" DIA	POLISHED NICKEL BRONZE TOP, CAST IRON BODY. PROVIDE TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN (MEDIUM DUTY)	ZURN	FD2340	6" DIA	POLISHED NICKEL BRONZE TOP, CAST IRON BODY. PROVIDE TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	ZURN	1900	10" SQ	12" SQ. X 6" DEEP, CAST IRON BODY, ACID-RESISTANT ENAMEL COATING, HALF GRATE.
TP-1	TRAP PRIMER	PPP	PT-6	ELECTRONIC	ELECTRONIC TRAP PRIMER, 120V / 1PH, INCLUDE MANUFACTURER'S STAINLESS STEEL ACCESS PANEL
DS-1	DOWNSPOUT	-	-	-	DOWNSPOUT - PROVIDED BY ARCH. SHOWN FOR REFERENCE ONLY
RR-1	ROOF RECEPTOR	ZURN	Z127	8"	ROOF DECK RECEPTOR DRAIN, CAST IRON BODY, FLASHING CLAMP, DOME STRAINER
WCO	WALL CLEANOUT	ZURN	Z1446	-	CAST IRON BODY CLEANOUT TEE, STAINLESS STEEL COVER. BRONZE PLUG.
GCO	GRADE CLEANOUT	ZURN	Z1400	7-1/4" DIA	HEAVY DUTY CAST IRON TOP, CAST IRON BODY, BRONZE PLUG
FCO	FLOOR CLEANOUT	ZURN	Z1400	7-1/4" DIA	HEAVY DUTY NICKEL BRONZE TOP, CAST IRON BODY, ANCHORED FLANGE.
VTR	VENT CAP	ZURN	Z1473	-	VENT PIPE SECURING SCREW

EXPANSION TANKS SCHEDULE									
TAG	MAKE	MODEL	TYPE	SERVICE	CAPACITY (GAL)	HEIGHT (IN)	OPERATING WEIGHT (LBS)	ATTACHMENT DETAIL	NOTES
ST-1	AMTROL	ST-12C	DIAPHRAGM THERMAL EXPANSION	KITCHEN HOT	6	14	50	7/2.P8.01	1

1. PROVIDED TANK PRE-CHARGED, MATCHING INCOMING WATER PRESSURE. PROVIDE WITH SIGHT-GLASS, 150-PSI MAX WORKING PRESSURE, ANSI 61 COMPLIANT

THERMOSTATIC MIXING VALVE						
TAG	MAKE	MODEL	SERVICE	FLOW RATE	PSI LOSS	NOTES
TMV-1	LEONARD	TM HIGH-LOW SERIES	DOMESTIC HOT WATER	20 GPM	5	1,2

1. LEAD FREE, 140F INLET - 120F OUTLET.
2. REFER TO DETAIL 3/2.P8.01 FOR MORE INFORMATION.

PUMP								
TAG	DESCRIPTION	SERVICE	LOCATION	FLOW	HEAD	POWER	VOLT/	MAKE & MODEL
				(GPM)	(FT)	(HP)	PHASE	
CP-1	HW RECIRCULATING PUMP	DOMESTIC HOT WATER	CUSTODIAN	3	10	0.1	120/1	B&G EEOCIRC 20-18

KITCHEN EQUIPMENT PLUMBING SCHEDULE (FOR REFERENCE ONLY - INSTALLED BY FOOD SERVICE CONTRACTOR)						
TAG	DESCRIPTION	CW	140°F HW	IW	W	V
11	3 COMPARTMENT SINK	3/4"	3/4"	(3) 2" TO FS	-	-
12	PRE-RINSE UNIT WITH ADD-ON FAUCET	1/2"	1/2"	-	-	-
14	WORKTABLE W/ SINK	1/2"	1/2"	2" TO FS	-	-
17	HAND SINK W/ ELECTRONIC FAUCET	1/2"	1/2"	-	1-1/2"	1-1/2"
24	DISHMACHINE, DOOR-TYPE, VENTLESS	3/4"	3/4"	1-1/2" TO FS		
31	SERVING COUNTER, HOT, MOBILE	-	-	1/2" TO FS	-	-
33	SERVING COUNTER, COLD, MOBILE	-	-	1" TO FS	-	-

A. MAKE ALL ROUGH-INS AND FINAL CONNECTIONS IN CONFORMANCE WITH LOCAL CODES. INCLUDE TRAPS, TAIL PIECES, AND LINE STRAINERS AS REQUIRED.

B. FURNISH AND INSTALL ALL SINK SINKS AND FLOOR DRAINS FLUSH WITH FINISH FLOOR.

C. FURNISH AND INSTALL ALL SINK INDIRECT AND DIRECT WASTE LINES. REFER TO FOOD SERVICE PLANS FOR INDIRECT WASTE PIPE ROUTING.

D. FURNISH AND INSTALL STAINLESS STEEL OR CHROME PLATED ESCUTCHEON PLATES FOR ALL WATER LINES PENETRATING COUNTER TOPS AND BACK SPLASHES.

E. TAG NUMBERS CORRESPOND TO EQUIPMENT TAGS ON KITCHEN PLANS. SEE FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

F. ALL FOOD SERVICE EQUIPMENT SHALL BE PROVIDED BY FSEC. PLUMBING DIVISION TO INSTALL AND CONNECT.

G. A 1" AIR GAP SHALL BE PROVIDED BETWEEN EACH PIECE OF DRAIN LINE AND FLOOR SINK WHERE INDIRECT CONNECTIONS ARE SPECIFIED.



SMFCSD LEAD ELEMENTARY MULTI-PURPOSE BUILDING

949 Ocean View Avenue
San Mateo, CA 94401

JOB NO.	21012
DRAWN	Author
CHECKED	Checker
JOB CAPTAIN	Approver

[illegible]

DRAWING TITLE
PLUMBING
SCHEDULE

SCALE NTS

2.P0.02

**OPENING BID
SIGN IN SHEET**



**LEAD ES MPR BUILDING
PROJECT No. 20-201**

DATE: March 28, 2023

MANDATORY BID WALK TIME: 11:00 am

(Please Provide Business Card (if available))

	COMPANY NAME	CONTACT NAME / PHONE NUMBER / E-MAIL	ADDRESS
1	SC Builders, Inc.	CONTACT: Joe Ascolese PHONE: 408-318-4405 E-MAIL: jascolese@scbuildersinc.com	ADDRESS: 910 Thompson Place Sunnyvale, CA 94085
2	Bana Builders, Inc.	CONTACT: Abtin Khanmohammad PHONE: 415-508-9253 E-MAIL: bids@banabuilders.com	ADDRESS: 338 North Canal Street #11 South San Francisco, CA 94253
3	CWS	CONTACT: Charlie PHONE: 415-209-0229 E-MAIL: cslacksr@gmail.com	ADDRESS: 1301 Grant Avenue St B Novato, CA
4	Gonsalves & Stronck	CONTACT: Lori Eldredge PHONE: 650-802-2960 E-MAIL: bidroom@gs-construction.com	ADDRESS: 1000 Washington Street San Carlos, CA 94070
5	EF Brett & Co.	CONTACT: Adam PHONE: 415-524-8351 E-MAIL: estimator@efbrett.com	ADDRESS: 1 Commercial Blvd. Novato, CA 94949
6		CONTACT: _____ PHONE: _____ E-MAIL: _____	ADDRESS: _____
7		CONTACT: _____ PHONE: _____ E-MAIL: _____	ADDRESS: _____
8		CONTACT: _____ PHONE: _____ E-MAIL: _____	ADDRESS: _____



LEAD NEW MPR BUILDING - INCREMENT 1
PROJECT NO. 20-201
Tuesday, April 4, 2023
MANDATORY BID WALK TIME: 11:00 AM

	COMPANY NAME	Pre-Qual Status	Approval Limit	CONTACT INFORMATION		ADDRESS
1	EWS Electric	TBD	0	CONTACT:	Kevin Laine	ADDRESS: 500 West Ohio Ave Richmond CA 94804
				PHONE:	415-206-7120	
				E-MAIL:	klaine@edwardscottelectric.com	
2	Angotti & Reily	Approved	2,750,000	CONTACT:	Matty Salemy	ADDRESS: 2200 Jerrold Ave Ste E San Francisco CA 94124
				PHONE:	415-9575-3700	
				E-MAIL:	matty@angotti-reilly.com	
3	Beals Martin	Approved	13,000,000	CONTACT:	Bandon Ortmann	ADDRESS: 2596 Bay Road Redwood City CA 94063
				PHONE:	650-364-8141	
				E-MAIL:	Brandon@bealsmartin.com	
4	Midstate Contstruction	Approved	20,150,000	CONTACT:	Richard Harryman	ADDRESS: 1180 Holm Road Petaluma CA 94954
				PHONE:	707-559-2354	
				E-MAIL:	richardh@midstateconstruction.com	
5	C3 Surface	Submitted	TBD	CONTACT:	Brent Richarrrds	ADDRESS: 951 Linden Ave South San Francisco CA 94080
				PHONE:	401-225-8309	
				E-MAIL:	brent@c3surface.com	
6	Magnum Drywall	TBD	0	CONTACT:	Juan Montano	ADDRESS: 2030 Fortune Drive San Jose CA
				PHONE:	408-600-8957	
				E-MAIL:	juan@magnumdrywall.com	
7	Elcor Electric	TBD	0	CONTACT:	Corey Palmer	ADDRESS: 3310 Bassett St Santa Clara CA 95054
				PHONE:	408-642-0149	
				E-MAIL:	cpalmer@elcorelectric.com	
8	Bayside Interiors	TBD	0	CONTACT:	Luis Nevarez	ADDRESS: 3220 Darby Com Fremont CA 94539
				PHONE:	510-714-3043	
				E-MAIL:	lnvarez@baysideinteriors.com	

LEAD NEW MPR BUILDING - INCREMENT 1
PROJECT NO. 20-201
Tuesday, April 4, 2023
MANDATORY BID WALK TIME: 11:00 AM

	COMPANY NAME	Pre-Qualified Status	Approval Limit	CONTACT INFORMATION		ADDRESS
9	Blue Arc Electric	TBD	0	CONTACT:	Marshall Clifford	ADDRESS: 2130 Trade Zone Blvd #20 San Jose CA 95131
				PHONE:	408-836-7588	
				E-MAIL:	marshall@bluearcelectric.com	
10	Sausal Corporation	Approved	15,000,000	CONTACT:	Teena Singley	ADDRESS: 3550 Willow Pass Rd Concord CA 94519
				PHONE:	925-568-2200	
				E-MAIL:	tsingley@sausal.net	
11	CWS ???	?	?	CONTACT:	Jesus WS	ADDRESS:
				PHONE:		
				E-MAIL:		
12	RMS Construction	Approved	1,500,000	CONTACT:	Tim Jones	ADDRESS: 2698 Junipero Ave Ste 105-107 Signal Hill CA 90755
				PHONE:	562-406-7567	
				E-MAIL:	tjones@rmslifesafety.com	
13	Rodan Builders	Approved	20,500,000	CONTACT:	Kyle Bell	ADDRESS: 3486 Investment Blvd Suite B Hayward CA 94544
				PHONE:	650-863-5328	
				E-MAIL:	bids@rodanbuilders.com	
14	Lias Mechanical	Submitted	TBD	CONTACT:	Alex Kramer	ADDRESS: 25613 Dollar St Unit 5 Hayward, CA 94544
				PHONE:	510-417-1350	
				E-MAIL:	alex@lias.biz	
15	Pipe Works Plumbing	TBD	0	CONTACT:	Julie Wynn	ADDRESS: PO Box 1277 Bella Vista CA 96008
				PHONE:	650-521-7714	
				E-MAIL:	julie@pipe-works.com	
16				CONTACT:		ADDRESS:
				PHONE:		
				E-MAIL:		
17				CONTACT:		ADDRESS:
				PHONE:		
				E-MAIL:		

August 3, 2021
Project No. 1388.1A
Ser. 6909

San Mateo – Foster City School District
Attn: Bob Price, Construction Projects Manager
1410 South Amphlett Boulevard
San Mateo, California 94402

**RE: ENVIRONMENTAL SOIL SCREENING TEST RESULTS
NEW MPR BUILDING PROJECT
LEAD ELEMENTARY SCHOOL
949 OCEAN VIEW AVENUE
SAN MATEO, CALIFORNIA**

Dear Mr. Price:

As requested, we are submitting environmental soil screening test results for the on-site soils located at the planned New MPR Building Project at the LEAD Elementary School campus in San Mateo, California. Our proposal for the environmental soil screening was submitted May 24, 2021.

A total of four discrete samples within the upper six to 12 inches of in-situ soils were collected throughout the project site which we understand to be approximately 2 acres or less (see Drawing 1. The samples were collected on July 1, 2021 via hand auger sampling. The soil samples were stored in a cooler with ice and then picked up by a Eurofins TestAmerica environmental lab courier on July 2, 2021 for discrete sample testing.

Soils analysis for the four samples included TPH EPA 8260B - Gas, TEPH EPA 8015B - Diesel and Motor Oil, EPA 8260B - VOC's, EPA 8270C - Semivolatiles, EPA 8081A - Pesticides, EPA 8082 - PCB's, EPA 6010B and 7471A - CAM 17 Metals and Mercury, EPA 7199 - Chromium VI, EPA 6010B - Arsenic and Chromium STLC, and CARB-435 - Asbestos. The above tests were performed and reported on a dry weight basis with the exception of the EPA 6010B STLC testing and results. These tests are generally standard requirements for unrestricted use sites and landfills. The results of the initial analyses dated July 13, 2021 (Job ID: 320-75699-1) indicated that additional soil analyses were needed for one sample. The TTLC levels in the initial laboratory testing results indicated sample LESMPR-ENV-D required additional Nickel STLC

San Mateo – Foster City School District
Attn: Bob Price, Project Manager
August 3 2021
Page 2

testing. The results of the additional analyses dated July 28, 2021 are attached to this letter (Job ID: 320-75699-1 Revision 1).

The attached summary reports prepared by Eurofins TestAmerica detail the lab analysis results. These test results were compared to the most recent (July 2019 Rev. 2) San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) for shallow soils and residential land use and the State (Title 22-TTLC, STLC) and Federal (RCRA-TCLP) hazardous waste criteria. The ESLs are typically used by landfills and trucking companies to determine the appropriate site/location for re-use or disposal of soil.

The test results were also compared to the most recent (May 2021) Environmental Protection Agency Regional Screening Levels (EPA RSL) for residential soils or the most recent (June 2020) Human Health Risk Assessment (HHRA) Note Number 3 - DTSC-modified Screening Levels (DTSC-SL) for residential soils in California. Both the EPA RSLs and the DTSC-SLs have been developed to provide guidance and a recommended approach to risk assessment at sites that may be deemed hazardous. Both agencies provide screening level concentrations of chemicals in soil below thresholds of concern for risks to human health. It should be noted that these screening levels do not address potential ecological risks.

The metals results were also compared to average background metal concentrations in soils in Santa Clara County, Lawrence Berkeley National Laboratory (LBL), and the upper background limit for Arsenic (Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, Duverge 2011).

Sample LESMPR-ENV-A@0.5'

The results indicate that the detected contaminants (see Detection Summary Page 7, Job ID: 320-75699-1 Revision 1) are all either below the ESLs, the EPA RSLs or DTSC-SLs, the State TTLC or STLC or the Federal TCLP, or are generally within the range of expected background metal concentrations with the exception of Arsenic, Thallium and Vanadium. All other test results were non-detectable (ND).

Arsenic (5.1 mg/kg result) is above the ESL (0.067 mg/kg) and the DTSC-SL (0.11 mg/kg). However, Arsenic is within the Santa Clara County Background levels (0.2 to 5.5 mg/kg) and is below the mean value for Arsenic in the soil at LBL (5.5 mg/kg). Arsenic is also below the proposed upper background limit of 11 mg/kg for soils in the flatland locations of the San Francisco Bay Area Region (Duverge 2011) and the State TTLC criteria (500 mg/kg). Additional Arsenic STLC test results are ND (non-detect).

San Mateo – Foster City School District
Attn: Bob Price, Project Manager
August 3 2021
Page 3

Thallium (1.0 mg/kg result) is above the ESL (0.78 mg/kg) and the EPA RSL (0.78 mg/kg). However, Thallium is below the State TTLC criteria (700 mg/kg).

Vanadium (71 mg/kg result) is above the ESL (18 mg/kg) and the mean value for Vanadium in the soil at LBL (46 mg/kg). However, Vanadium is below the EPA RSL (390 mg/kg) and the State TTLC criteria (2400 mg/kg).

Sample LESMPR-ENV-B@0.5'

The results indicate that the detected contaminants (see Detection Summary Page 7, Job ID: 320-75699-1 Revision 1) are all either below the ESLs, the EPA RSLs or DTSC-SLs, the State TTLC or STLC or the Federal TCLP, or are generally within the range of expected background metal concentrations with the exception of Chlordane, Arsenic, and Vanadium. All other test results were non-detectable (ND).

Chlordane (0.16 mg/kg result) is above the ESL (0.0085 mg/kg). However, Chlordane is below the EPA RSL (1.7 mg/kg) and the State TTLC criteria (2.5 mg/kg).

Arsenic (3.5 mg/kg result) is above the ESL (0.067 mg/kg) and the DTSC-SL (0.11 mg/kg). However, Arsenic is within the Santa Clara County Background levels (0.2 to 5.5 mg/kg) and is below the mean value for Arsenic in the soil at LBL (5.5 mg/kg). Arsenic is also below the proposed upper background limit of 11 mg/kg for soils in the flatland locations of the San Francisco Bay Area Region (Duverge 2011) and the State TTLC criteria (500 mg/kg). Additional Arsenic STLC test results are ND (non-detect). Additional Arsenic STLC results (0.13 mg/L) are below the State STLC criteria of (5.0 mg/L).

Vanadium (32 mg/kg result) is above the ESL (18 mg/kg). However, Vanadium is below the mean value for Vanadium in the soil at LBL (46 mg/kg), the EPA RSL (390 mg/kg), and the State TTLC criteria (2400 mg/kg).

Sample LESMPR-ENV-C@0.5'

The results indicate that the detected contaminants (see Detection Summary Page 7-8, Job ID: 320-75699-1 Revision 1) are all either below the ESLs, the EPA RSLs or DTSC-SLs, the State TTLC or STLC or the Federal TCLP, or are generally within the range of expected background metal concentrations with the exception of Arsenic, Cobalt, Thallium, and Vanadium. All other test results were non-detectable (ND).

San Mateo – Foster City School District
Attn: Bob Price, Project Manager
August 3 2021
Page 4

Arsenic (5.3 mg/kg result) is above the ESL (0.067 mg/kg) and the DTSC-SL (0.11 mg/kg). However, Arsenic is within the Santa Clara County Background levels (0.2 to 5.5 mg/kg) and is below the mean value for Arsenic in the soil at LBL (5.5 mg/kg). Arsenic is also below the proposed upper background limit of 11 mg/kg for soils in the flatland locations of the San Francisco Bay Area Region (Duverge 2011) and the State TTLC criteria (500 mg/kg). Additional Arsenic STLC test results are ND (non-detect).

Cobalt (24 mg/kg result) is above the ESL (23 mg/kg), the EPA RSL (23 mg/kg), and the mean value for Cobalt in the soil at LBL (14.0 mg/kg). However, Cobalt is below the State TTLC criteria (8000 mg/kg).

Thallium (1.7 mg/kg result) is above the ESL (0.78 mg/kg) and the EPA RSL (0.78 mg/kg). However, Thallium is below the State TTLC criteria (700 mg/kg).

Vanadium (65 mg/kg result) is above the ESL (18 mg/kg) and the mean value for Vanadium in the soil at LBL (46 mg/kg). However, Vanadium is below the EPA RSL (390 mg/kg) and the State TTLC criteria (2400 mg/kg).

Sample LESMPR-ENV-D@0.5'

The results indicate that the detected contaminants (see Detection Summary Page 8, Job ID: 320-75699-1 Revision 1) are all either below the ESLs, the EPA RSLs or DTSC-SLs, the State TTLC or STLC or the Federal TCLP, or are generally within the range of expected background metal concentrations with the exception of DDT, Arsenic, Cobalt, Nickel, Thallium, and Vanadium. All other test results were non-detectable (ND).

DDT (Dichlorophenyltrichloroethane) (0.0049 mg/kg result) is above the ESL (0.0011 mg/kg). However, DDT is below the EPA RSL (1.9 mg/kg) and the State TTLC criteria (1.0 mg/kg).

Arsenic (7.0 mg/kg result) is above the ESL (0.067 mg/kg), the DTSC-SL (0.11 mg/kg), the mean value for Arsenic in the soil at LBL (5.5 mg/kg), and the Santa Clara County Background levels (0.2 to 5.5 mg/kg). However, Arsenic is below the proposed upper background limit of 11 mg/kg for soils in the flatland locations of the San Francisco Bay Area Region (Duverge 2011) and the State TTLC criteria (500 mg/kg). Additional Arsenic STLC test results are ND (non-detect).

Cobalt (23 mg/kg result) is equal to the ESL (23 mg/kg) and the EPA RSL (23 mg/kg), and above the mean value for Cobalt in the soil at LBL (14.0 mg/kg). However, Cobalt is below the State TTLC criteria (8000 mg/kg).

San Mateo – Foster City School District
Attn: Bob Price, Project Manager
August 3 2021
Page 5

Nickel (200 mg/kg result) is above the ESL (86 mg/kg), the mean value for Nickel in the soil at LBL (68 mg/kg), and the Santa Clara County Background levels (46.4 to 101 mg/kg). However, Nickel is below the EPA RSL (1500 mg/kg) and the State TTLC criteria (2000 mg/kg). Additional Nickel STLC results (2.1 mg/L) are below the State STLC criteria (20 mg/L).

Thallium (1.1 mg/kg result) is above the ESL (0.78 mg/kg) and the EPA RSL (0.78 mg/kg). However, Thallium is below the State TTLC criteria (700 mg/kg).

Vanadium (63 mg/kg result) is above the ESL (18 mg/kg) and the mean value for Vanadium in the soil at LBL (46 mg/kg). However, Vanadium is below the EPA RSL (390 mg/kg) and the State TTLC criteria (2400 mg/kg).

Conclusions

The results of our environmental soil screening for the planned New MPR Building Project at the LEAD Elementary School campus in San Mateo, California indicate the presence of DDT (Dichlorophenyltrichloroethane), Chlordane, Arsenic, Cobalt, Nickel, Thallium, and Vanadium above the July 2019 Revision 2 ESLs.

DDT (Dichlorophenyltrichloroethane) levels in sample LESMPR-ENV-D are above the ESL.

Chlordane levels in sample LESMPR-ENV-B are above the ESL.

Arsenic levels in all samples are above the ESL. However, Arsenic levels in all samples are below the established upper background limit for the San Francisco Bay Area.

Cobalt levels in samples LESMPR-ENV-C and LESMPR-ENV-D are above the ESL

Nickel levels in sample LESMPR-ENV-D are above the ESL

Thallium levels in sample LESMPR-ENV-A, LESMPR-ENV-C, and LESMPR-ENV-D are above the ESL.

Vanadium levels in all samples are above the ESL.

This screening was intended for preliminary analysis; additional sampling and discrete soil screening analysis may be required by landfills or trucking companies based on quantity of soil or site area prior to offhaul or disposal of excess materials.

San Mateo – Foster City School District
Attn: Bob Price, Project Manager
August 3 2021
Page 6

Our services were performed in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either expressed or implied.

We appreciate the opportunity to provide our services to the District and its consultants. If you have any questions regarding this letter, please call.

Yours very truly,

CLEARY CONSULTANTS, INC.



Ian Severeis
Staff Engineering Geologist



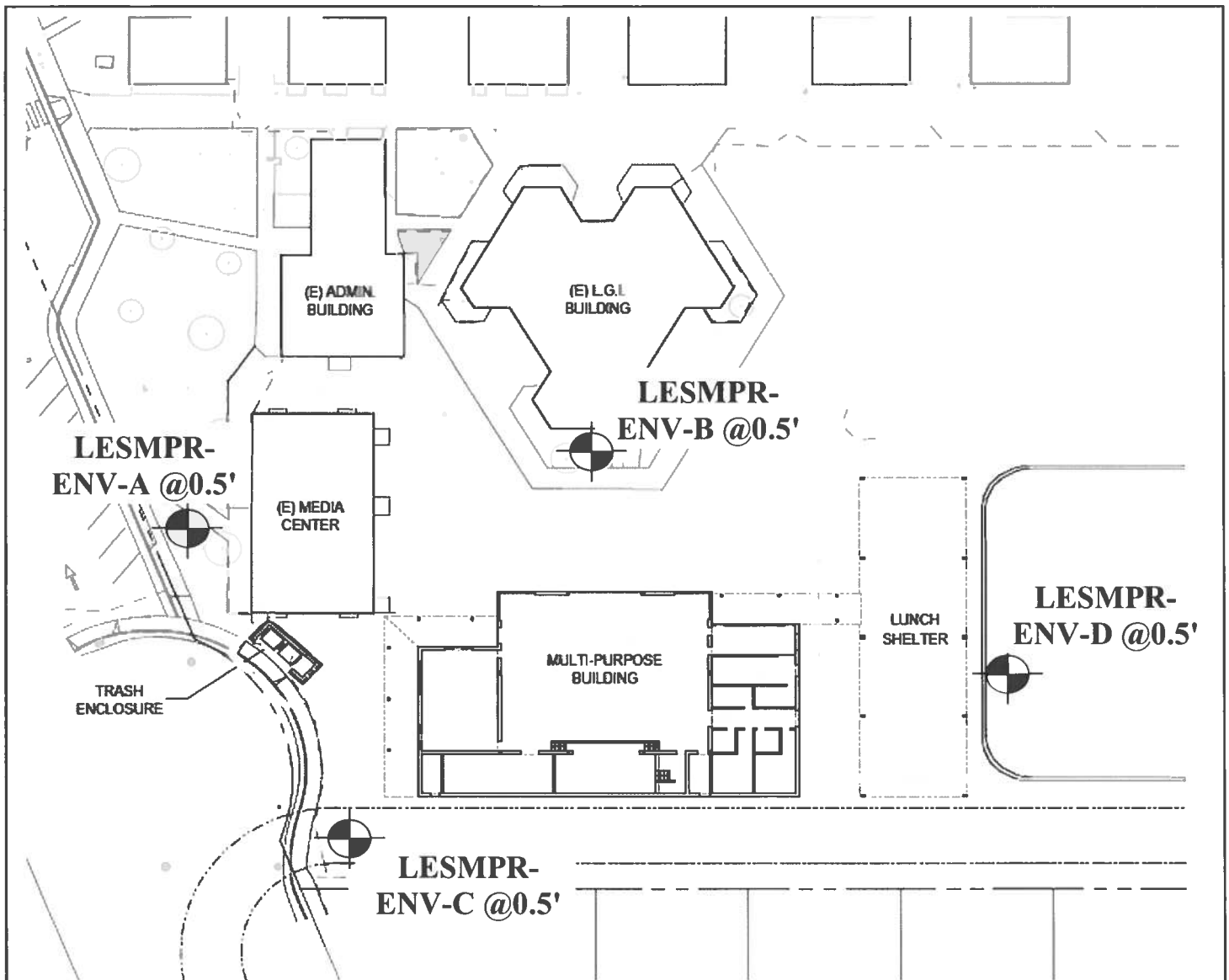
Grant Foster
Geotechnical Engineer 2662

IS//GF:is


Copies: Addressee (email)

Attachments:

Drawing 1 – Environmental Soil Screening Sample Locations
Eurofins TestAmerica Results, Job ID 320-75699-1 Revision 1 (65 Pages) July 28, 2021




EXPLANATION

LESMPR-
ENV-A @0.5' 

Approximate Location of Environmental Soil Sampling

BASE: Prepared by HKIT Architects, Undated

ENVIRONMENTAL SOIL SCREENING SAMPLE LOCATIONS

 CLEARY CONSULTANTS, INC. <i>Geotechnical Engineers and Geologists</i>		NEW MPR BUILDING PROJECT LEAD Elementary School San Mateo, California		
APPROVED BY	SCALE	PROJECT NO.	DATE	DRAWING NO.
GF	1" = 60' ±	1388.1A	August 2021	1

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

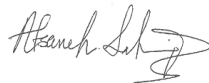
Laboratory Job ID: 320-75699-1

Client Project/Site: Horral/Lead Elementary School-MRP
Building
Revision: 1

For:

Cleary Consultants, Inc
560 Division Street
Campbell, California 95008

Attn: Grant Foster



Authorized for release by:
7/28/2021 3:07:04 PM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
Afsaneh.Salimpour@Eurofinset.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Detection Summary	7
Client Sample Results	9
Surrogate Summary	29
QC Sample Results	31
QC Association Summary	47
Lab Chronicle	51
Certification Summary	54
Method Summary	55
Sample Summary	56
Subcontract Data	57
Chain of Custody	60
Receipt Checklists	63



Definitions/Glossary

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Eurofins TestAmerica, Sacramento

Definitions/Glossary

Client: Cleary Consultants, Inc

Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Job ID: 320-75699-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-75699-1

Add STLC-Ni on 7/28/2021.

Comments

No additional comments.

Receipt

The samples were received on 7/2/2021 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA

Method 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 320-505017 recovered outside control limits for the following analytes: 1,2-Dichlorobenzene, Acetone, sec-Butylbenzene, N-Propylbenzene, n-Butylbenzene, Hexachlorobutadiene, 1,4-Dichlorobenzene and Xylenes, Total. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270C: The following samples were diluted due to the nature of the sample matrix : LESMPR-ENV-A@0.5' (320-75699-1), LESMPR-ENV-C@0.5' (320-75699-3), LESMPR-ENV-D@0.5' (320-75699-4) and (320-75703-A-2-E). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270C: The following samples were diluted due to the nature of the sample matrix: (320-75703-A-2-F MS) and (320-75703-A-2-G MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C: The laboratory control sample (LCS) for preparation batch 320-504213 and analytical batch 320-505293 recovered outside control limits for the following analytes: 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270C: The laboratory control sample (LCS) has percent recovery above the control limit of 97% at 101% for the surrogate Nitrobenzene-d5. All other recoveries are either within control limits or high and non-detect. All associated field samples have no target analytes detected above the reporting limits. Re-analysis confirmed results. The data has been flagged and reported.(LCS 320-504213/2-A)

Method 8270C: The following sample was diluted due to the nature of the sample matrix: LESMPR-ENV-B@0.5' (320-75699-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8015B: The following samples were diluted due to abundance of target analytes: LESMPR-ENV-A@0.5' (320-75699-1), LESMPR-ENV-C@0.5' (320-75699-3) and LESMPR-ENV-D@0.5' (320-75699-4). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8015B: The following samples were diluted due to the abundance of target analytes : (320-75699-A-4-J MS) and (320-75699-A-4-K MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: LESMPR-ENV-A@0.5' (320-75699-1), LESMPR-ENV-B@0.5' (320-75699-2), LESMPR-ENV-C@0.5' (320-75699-3) and LESMPR-ENV-D@0.5' (320-75699-4).

Case Narrative

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Job ID: 320-75699-1 (Continued)

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

Method 8081A: The following samples were diluted due to the nature of the sample matrix: LESMPR-ENV-A@0.5' (320-75699-1), LESMPR-ENV-B@0.5' (320-75699-2), LESMPR-ENV-C@0.5' (320-75699-3), LESMPR-ENV-D@0.5' (320-75699-4) and (320-75703-A-4-A). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for the noted sample: LESMPR-ENV-B@0.5' (320-75699-2). The primary column has been reported and qualified in accordance with the laboratory's SOP. 320-75699-A-2-A for Chlordane (technical) and trans-Chlordane

Method 8081A: The continuing calibration verification (CCV) associated with batch 320-505160 recovered above the upper control limit for Endosulfan I. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: LESMPR-ENV-A@0.5' (320-75699-1), LESMPR-ENV-B@0.5' (320-75699-2), LESMPR-ENV-C@0.5' (320-75699-3), LESMPR-ENV-D@0.5' (320-75699-4), (CCVRT 320-505160/3) and (320-75703-A-4-A).

Method 8082: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: (320-75703-A-2-D MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8015B: The following samples were diluted to bring the concentration of target analytes within the calibration range: LESMPR-ENV-A@0.5' (320-75699-1), LESMPR-ENV-C@0.5' (320-75699-3), LESMPR-ENV-D@0.5' (320-75699-4), (320-75699-A-4-J MS) and (320-75699-A-4-K MSD). Elevated reporting limits (RLs) are provided.

Method 8015B: Due to the high concentration, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-504929 and analytical batch 320-505321 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The instrument blank (CCB) for analytical batch 320-504758 contained Zinc (Zn) greater than one-half the reporting limit (RL), and were not re-analyzed because sample results were 10x greater than the CCB. The data have been qualified and reported.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-504378 and analytical batch 320-504758 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3550B: Due to the matrix, the following samples could not be concentrated to the final method required volume of 1 mL: LESMPR-ENV-A@0.5' (320-75699-1) and LESMPR-ENV-C@0.5' (320-75699-3). The reporting limits (RLs) are elevated proportionately. These samples are associated with 320-504213 solid 8270C.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-A@0.5'

Lab Sample ID: 320-75699-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	16		12	5.8	mg/Kg	10	✱	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	120		58	44	mg/Kg	10	✱	8015B	Silica Gel Cleanup
PCB-1260	0.078		0.038	0.0031	mg/Kg	1	✱	8082	Total/NA
Arsenic	5.1	F1	2.3	1.5	mg/Kg	1	✱	6010B	Total/NA
Barium	170	F1	1.1	0.14	mg/Kg	1	✱	6010B	Total/NA
Beryllium	0.47	B	0.23	0.034	mg/Kg	1	✱	6010B	Total/NA
Cadmium	0.17	J	0.23	0.034	mg/Kg	1	✱	6010B	Total/NA
Chromium	77	F1 B	0.57	0.16	mg/Kg	1	✱	6010B	Total/NA
Cobalt	17		0.57	0.28	mg/Kg	1	✱	6010B	Total/NA
Copper	38	B	1.7	0.25	mg/Kg	1	✱	6010B	Total/NA
Lead	9.7		1.1	0.30	mg/Kg	1	✱	6010B	Total/NA
Nickel	75	F1	1.1	0.27	mg/Kg	1	✱	6010B	Total/NA
Thallium	1.0	J	2.3	0.96	mg/Kg	1	✱	6010B	Total/NA
Vanadium	71		0.57	0.22	mg/Kg	1	✱	6010B	Total/NA
Zinc	70	B	2.3	0.22	mg/Kg	1	✱	6010B	Total/NA
Chromium	0.15		0.10	0.0060	mg/L	10		6010B	STLC Citrate
Mercury	0.054		0.045	0.0098	mg/Kg	1	✱	7471A	Total/NA

Client Sample ID: LESMPR-ENV-B@0.5'

Lab Sample ID: 320-75699-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C4-C12	0.11	J	0.49	0.049	mg/Kg	1	✱	8260B/CA_LUFT MS	Total/NA
Acetone	0.0019	J	0.019	0.0014	mg/Kg	1	✱	8260B	Total/NA
4-Isopropyltoluene	0.0022	J	0.0049	0.00061	mg/Kg	1	✱	8260B	Total/NA
Diesel Range Organics [C10-C28]	3.9		1.1	0.53	mg/Kg	1	✱	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	19		5.3	4.0	mg/Kg	1	✱	8015B	Silica Gel Cleanup
Chlordane (technical)	0.16	J p	0.21	0.10	mg/Kg	10	✱	8081A	Total/NA
cis-Chlordane	0.015	J	0.018	0.0019	mg/Kg	10	✱	8081A	Total/NA
trans-Chlordane	0.017	J p	0.018	0.0064	mg/Kg	10	✱	8081A	Total/NA
Arsenic	3.5		2.1	1.4	mg/Kg	1	✱	6010B	Total/NA
Barium	71		1.0	0.13	mg/Kg	1	✱	6010B	Total/NA
Beryllium	0.19	J B	0.21	0.031	mg/Kg	1	✱	6010B	Total/NA
Cadmium	0.071	J	0.21	0.031	mg/Kg	1	✱	6010B	Total/NA
Chromium	47	B	0.52	0.15	mg/Kg	1	✱	6010B	Total/NA
Cobalt	7.2		0.52	0.26	mg/Kg	1	✱	6010B	Total/NA
Copper	16	B	1.6	0.23	mg/Kg	1	✱	6010B	Total/NA
Lead	8.3		1.0	0.27	mg/Kg	1	✱	6010B	Total/NA
Nickel	46		1.0	0.25	mg/Kg	1	✱	6010B	Total/NA
Vanadium	32		0.52	0.20	mg/Kg	1	✱	6010B	Total/NA
Zinc	38	B ^2	2.1	0.20	mg/Kg	1	✱	6010B	Total/NA
Arsenic	0.13	J	0.20	0.12	mg/L	10		6010B	STLC Citrate
Chromium	0.32		0.10	0.0060	mg/L	10		6010B	STLC Citrate
Mercury	0.041	J	0.047	0.010	mg/Kg	1	✱	7471A	Total/NA

Client Sample ID: LESMPR-ENV-C@0.5'

Lab Sample ID: 320-75699-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0023	J	0.024	0.0017	mg/Kg	1	✱	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-C@0.5' (Continued)

Lab Sample ID: 320-75699-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	52		12	6.0	mg/Kg	10	✱	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	280		60	45	mg/Kg	10	✱	8015B	Silica Gel Cleanup
Arsenic	5.3		2.4	1.6	mg/Kg	1	✱	6010B	Total/NA
Barium	320		1.2	0.14	mg/Kg	1	✱	6010B	Total/NA
Beryllium	0.48	B	0.24	0.036	mg/Kg	1	✱	6010B	Total/NA
Cadmium	0.067	J	0.24	0.036	mg/Kg	1	✱	6010B	Total/NA
Chromium	55	B	0.60	0.17	mg/Kg	1	✱	6010B	Total/NA
Cobalt	24		0.60	0.30	mg/Kg	1	✱	6010B	Total/NA
Copper	49	B	1.8	0.26	mg/Kg	1	✱	6010B	Total/NA
Lead	8.7		1.2	0.31	mg/Kg	1	✱	6010B	Total/NA
Molybdenum	1.2	J	2.4	0.90	mg/Kg	1	✱	6010B	Total/NA
Nickel	62		1.2	0.29	mg/Kg	1	✱	6010B	Total/NA
Thallium	1.7	J	2.4	1.0	mg/Kg	1	✱	6010B	Total/NA
Vanadium	65		0.60	0.23	mg/Kg	1	✱	6010B	Total/NA
Zinc	54	B ^2	2.4	0.23	mg/Kg	1	✱	6010B	Total/NA
Chromium	0.13		0.10	0.0060	mg/L	10		6010B	STLC Citrate
Mercury	0.066		0.046	0.0099	mg/Kg	1	✱	7471A	Total/NA

Client Sample ID: LESMPR-ENV-D@0.5'

Lab Sample ID: 320-75699-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	13	F1	11	5.6	mg/Kg	10	✱	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	87	F1	56	42	mg/Kg	10	✱	8015B	Silica Gel Cleanup
4,4'-DDT	0.0049	J	0.019	0.0027	mg/Kg	10	✱	8081A	Total/NA
Arsenic	7.0		2.2	1.4	mg/Kg	1	✱	6010B	Total/NA
Barium	180		1.1	0.13	mg/Kg	1	✱	6010B	Total/NA
Beryllium	0.21	J B	0.22	0.032	mg/Kg	1	✱	6010B	Total/NA
Cadmium	0.42		0.22	0.032	mg/Kg	1	✱	6010B	Total/NA
Chromium	63	B	0.54	0.15	mg/Kg	1	✱	6010B	Total/NA
Cobalt	23		0.54	0.27	mg/Kg	1	✱	6010B	Total/NA
Copper	41	B	1.6	0.24	mg/Kg	1	✱	6010B	Total/NA
Lead	12		1.1	0.28	mg/Kg	1	✱	6010B	Total/NA
Nickel	200		1.1	0.26	mg/Kg	1	✱	6010B	Total/NA
Thallium	1.1	J	2.2	0.91	mg/Kg	1	✱	6010B	Total/NA
Vanadium	63		0.54	0.20	mg/Kg	1	✱	6010B	Total/NA
Zinc	75	B ^2	2.2	0.20	mg/Kg	1	✱	6010B	Total/NA
Chromium	0.18		0.10	0.0060	mg/L	10		6010B	STLC Citrate
Nickel	2.1	B	0.10	0.012	mg/L	10		6010B	STLC Citrate
Mercury	0.18		0.043	0.0093	mg/Kg	1	✱	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-A@0.5'

Lab Sample ID: 320-75699-1

Date Collected: 07/01/21 12:40

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 85.2

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.54	0.054	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 131				07/07/21 09:50	07/08/21 15:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.011	0.00065	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Acetone	ND		0.022	0.0015	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Benzene	ND		0.0054	0.00028	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Dichlorobromomethane	ND		0.0054	0.00057	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Bromobenzene	ND		0.0054	0.00056	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Chlorobromomethane	ND		0.0054	0.0010	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Bromoform	ND		0.0054	0.00043	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Bromomethane	ND		0.0054	0.00093	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
2-Butanone (MEK)	ND		0.011	0.0015	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
n-Butylbenzene	ND		0.0054	0.00071	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
sec-Butylbenzene	ND		0.0054	0.00081	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
tert-Butylbenzene	ND		0.0054	0.00058	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Carbon disulfide	ND		0.011	0.00053	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Carbon tetrachloride	ND		0.0054	0.00057	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Chlorobenzene	ND		0.0054	0.00031	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Chloroethane	ND		0.0054	0.00049	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Chloroform	ND		0.0054	0.00028	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Chloromethane	ND		0.0054	0.00054	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
2-Chlorotoluene	ND		0.0054	0.00067	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
4-Chlorotoluene	ND		0.0054	0.00093	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Chlorodibromomethane	ND		0.0054	0.00023	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,2-Dichlorobenzene	ND		0.0054	0.00069	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,3-Dichlorobenzene	ND		0.0054	0.00032	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,4-Dichlorobenzene	ND		0.0054	0.00084	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,3-Dichloropropane	ND		0.0054	0.00062	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,1-Dichloropropene	ND		0.0054	0.00040	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,2-Dibromo-3-Chloropropane	ND		0.011	0.00095	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Ethylene Dibromide	ND		0.011	0.00029	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Dibromomethane	ND		0.0054	0.00063	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Dichlorodifluoromethane	ND		0.0054	0.00096	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,1-Dichloroethane	ND		0.0054	0.00031	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,2-Dichloroethane	ND		0.0054	0.00079	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,1-Dichloroethene	ND		0.0054	0.00028	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
cis-1,2-Dichloroethene	ND		0.0054	0.00096	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
trans-1,2-Dichloroethene	ND		0.0054	0.00041	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,2-Dichloropropane	ND		0.0054	0.00065	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
cis-1,3-Dichloropropene	ND		0.0054	0.00069	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
trans-1,3-Dichloropropene	ND		0.0054	0.00081	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Ethylbenzene	ND		0.0054	0.00037	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Hexachlorobutadiene	ND		0.0054	0.00036	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
2-Hexanone	ND		0.011	0.00080	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Isopropylbenzene	ND		0.0054	0.00056	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-A@0.5'

Lab Sample ID: 320-75699-1

Date Collected: 07/01/21 12:40

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		0.0054	0.00068	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Methylene Chloride	ND		0.011	0.00091	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
4-Methyl-2-pentanone (MIBK)	ND		0.011	0.0010	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Naphthalene	ND		0.0054	0.00068	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
N-Propylbenzene	ND		0.0054	0.00031	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Styrene	ND		0.0054	0.00034	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,1,1,2-Tetrachloroethane	ND		0.0054	0.00044	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,1,2,2-Tetrachloroethane	ND		0.0054	0.00074	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Tetrachloroethene	ND		0.0054	0.00066	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Toluene	ND		0.0054	0.00066	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,2,3-Trichlorobenzene	ND		0.0054	0.00081	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,2,4-Trichlorobenzene	ND		0.0054	0.00081	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,1,1-Trichloroethane	ND		0.0054	0.00039	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,1,2-Trichloroethane	ND		0.0054	0.00048	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Trichloroethene	ND		0.0054	0.00065	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Trichlorofluoromethane	ND		0.0054	0.00037	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,2,3-Trichloropropane	ND		0.0054	0.00082	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.011	0.00090	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,2,4-Trimethylbenzene	ND		0.0054	0.00055	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
1,3,5-Trimethylbenzene	ND		0.0054	0.00038	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Vinyl acetate	ND		0.011	0.00075	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Vinyl chloride	ND		0.0054	0.00039	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
Xylenes, Total	ND		0.0054	0.00088	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1
2,2-Dichloropropane	ND		0.0054	0.00041	mg/Kg	☆	07/07/21 09:50	07/08/21 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		63 - 143	07/07/21 09:50	07/08/21 15:24	1
Dibromofluoromethane (Surr)	110		55 - 129	07/07/21 09:50	07/08/21 15:24	1
1,2-Dichloroethane-d4 (Surr)	108		32 - 156	07/07/21 09:50	07/08/21 15:24	1
Toluene-d8 (Surr)	111		63 - 138	07/07/21 09:50	07/08/21 15:24	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		23	5.8	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Bis(2-chloroethyl)ether	ND		23	5.6	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2-Chlorophenol	ND		23	6.1	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
1,3-Dichlorobenzene	ND		23	5.4	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
1,4-Dichlorobenzene	ND		23	5.4	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Benzyl alcohol	ND		23	12	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
1,2-Dichlorobenzene	ND		23	5.2	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2-Methylphenol	ND		23	4.0	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
N-Nitrosodi-n-propylamine	ND		23	5.8	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Hexachloroethane	ND		23	5.6	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Nitrobenzene	ND		23	5.3	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Isophorone	ND		23	6.5	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2-Nitrophenol	ND		23	5.7	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2,4-Dimethylphenol	ND		23	12	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Bis(2-chloroethoxy)methane	ND		23	6.1	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2,4-Dichlorophenol	ND		23	6.2	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
1,2,4-Trichlorobenzene	ND		23	5.8	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-A@0.5'

Lab Sample ID: 320-75699-1

Date Collected: 07/01/21 12:40

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 85.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		23	5.7	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
4-Chloroaniline	ND		23	4.0	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Hexachlorobutadiene	ND		23	5.7	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
4-Chloro-3-methylphenol	ND		23	6.4	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2-Methylnaphthalene	ND		23	5.9	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Hexachlorocyclopentadiene	ND		110	4.3	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2,4,6-Trichlorophenol	ND		23	5.8	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2,4,5-Trichlorophenol	ND		23	5.8	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2-Chloronaphthalene	ND		23	5.6	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2-Nitroaniline	ND		110	5.8	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Dimethyl phthalate	ND		23	6.0	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Acenaphthylene	ND		23	5.9	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
3-Nitroaniline	ND		110	12	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
3-Methylphenol & 4-Methylphenol	ND		46000	23000	ug/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Acenaphthene	ND		23	5.8	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2,4-Dinitrophenol	ND	+	110	15	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
4-Nitrophenol	ND		110	19	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Dibenzofuran	ND		23	6.0	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2,4-Dinitrotoluene	ND		23	6.2	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2,6-Dinitrotoluene	ND		23	6.9	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Diethyl phthalate	ND		23	6.3	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
4-Chlorophenyl phenyl ether	ND		23	6.5	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Fluorene	ND		23	6.4	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
4-Nitroaniline	ND		110	6.1	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
2-Methyl-4,6-dinitrophenol	ND	+	110	5.6	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
N-Nitrosodiphenylamine	ND		23	6.0	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
4-Bromophenyl phenyl ether	ND		23	5.9	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Hexachlorobenzene	ND		23	6.2	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Pentachlorophenol	ND		110	3.5	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Phenanthrene	ND		23	6.5	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Anthracene	ND		23	6.0	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Di-n-butyl phthalate	ND		23	6.7	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Fluoranthene	ND		23	6.6	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Pyrene	ND		23	6.5	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Butyl benzyl phthalate	ND		23	6.6	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
3,3'-Dichlorobenzidine	ND		110	6.5	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Benzo[a]anthracene	ND		23	6.4	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Bis(2-ethylhexyl) phthalate	ND		23	6.8	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Chrysene	ND		23	5.8	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Di-n-octyl phthalate	ND		23	6.7	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Benzo[b]fluoranthene	ND		23	6.6	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Benzo[a]pyrene	ND		23	6.5	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Benzo[k]fluoranthene	ND		23	7.9	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Indeno[1,2,3-cd]pyrene	ND		23	6.7	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Benzo[g,h,i]perylene	ND		23	7.6	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Benzoic acid	ND		110	20	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Azobenzene	ND		23	6.4	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Dibenz(a,h)anthracene	ND		23	7.1	mg/Kg	☆	07/06/21 09:48	07/09/21 14:39	20
Pyridine	ND		46000	5000	ug/Kg	☆	07/06/21 09:48	07/09/21 14:39	20

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-A@0.5'

Lab Sample ID: 320-75699-1

Date Collected: 07/01/21 12:40

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 85.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	58		57 - 97	07/06/21 09:48	07/09/21 14:39	20
Terphenyl-d14	77		70 - 112	07/06/21 09:48	07/09/21 14:39	20
2-Fluorophenol	60		56 - 96	07/06/21 09:48	07/09/21 14:39	20
Phenol-d5	67		58 - 98	07/06/21 09:48	07/09/21 14:39	20
2,4,6-Tribromophenol	135	S1+	57 - 124	07/06/21 09:48	07/09/21 14:39	20

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16		12	5.8	mg/Kg	☆	07/08/21 06:45	07/10/21 05:52	10
Motor Oil Range Organics [C24-C36]	120		58	44	mg/Kg	☆	07/08/21 06:45	07/10/21 05:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	66		51 - 111	07/08/21 06:45	07/10/21 05:52	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.020	0.0016	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
Dieldrin	ND		0.020	0.0023	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
Endrin aldehyde	ND		0.020	0.0066	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
Endrin	ND		0.020	0.0023	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
Endrin ketone	ND		0.020	0.0031	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
Heptachlor	ND		0.020	0.0017	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
Heptachlor epoxide	ND		0.020	0.0021	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
4,4'-DDT	ND	p	0.020	0.0029	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
4,4'-DDE	ND		0.020	0.0024	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
4,4'-DDD	ND		0.020	0.0027	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
Endosulfan I	ND		0.020	0.0021	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
Endosulfan II	ND		0.020	0.0021	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
alpha-BHC	ND		0.020	0.0018	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
beta-BHC	ND		0.020	0.0025	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
gamma-BHC (Lindane)	ND		0.020	0.0016	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
delta-BHC	ND		0.020	0.0040	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
Endosulfan sulfate	ND		0.020	0.0040	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
Methoxychlor	ND		0.039	0.0065	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
Toxaphene	ND		0.77	0.26	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
Chlordane (technical)	ND		0.23	0.11	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
cis-Chlordane	ND		0.020	0.0021	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10
trans-Chlordane	ND		0.020	0.0069	mg/Kg	☆	07/06/21 09:24	07/08/21 21:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	111	S1+	47 - 107	07/06/21 09:24	07/08/21 21:03	10
Tetrachloro-m-xylene	85		47 - 107	07/06/21 09:24	07/08/21 21:03	10
DCB Decachlorobiphenyl	73		46 - 109	07/06/21 09:24	07/08/21 21:03	10
DCB Decachlorobiphenyl	80		46 - 109	07/06/21 09:24	07/08/21 21:03	10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.038	0.0029	mg/Kg	☆	07/06/21 09:34	07/09/21 21:21	1
PCB-1221	ND		0.038	0.0042	mg/Kg	☆	07/06/21 09:34	07/09/21 21:21	1
PCB-1232	ND		0.038	0.0055	mg/Kg	☆	07/06/21 09:34	07/09/21 21:21	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-A@0.5'

Lab Sample ID: 320-75699-1

Date Collected: 07/01/21 12:40

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 85.2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.038	0.0068	mg/Kg	☆	07/06/21 09:34	07/09/21 21:21	1
PCB-1248	ND		0.038	0.0028	mg/Kg	☆	07/06/21 09:34	07/09/21 21:21	1
PCB-1254	ND		0.038	0.0044	mg/Kg	☆	07/06/21 09:34	07/09/21 21:21	1
PCB-1260	0.078		0.038	0.0031	mg/Kg	☆	07/06/21 09:34	07/09/21 21:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		52 - 138				07/06/21 09:34	07/09/21 21:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	2.3	1.1	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Arsenic	5.1	F1	2.3	1.5	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Barium	170	F1	1.1	0.14	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Beryllium	0.47	B	0.23	0.034	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Cadmium	0.17	J	0.23	0.034	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Chromium	77	F1 B	0.57	0.16	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Cobalt	17		0.57	0.28	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Copper	38	B	1.7	0.25	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Lead	9.7		1.1	0.30	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Molybdenum	ND	F1	2.3	0.85	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Nickel	75	F1	1.1	0.27	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Selenium	ND		2.3	1.6	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Silver	ND		0.57	0.10	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Thallium	1.0	J	2.3	0.96	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Vanadium	71		0.57	0.22	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1
Zinc	70	B	2.3	0.22	mg/Kg	☆	07/06/21 12:51	07/07/21 11:29	1

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.12	mg/L			07/12/21 14:28	10
Chromium	0.15		0.10	0.0060	mg/L			07/12/21 14:28	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.045	0.0098	mg/Kg	☆	07/09/21 15:30	07/09/21 17:22	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.8		0.1	0.1	%			07/08/21 11:53	1

Client Sample ID: LESMPR-ENV-B@0.5'

Lab Sample ID: 320-75699-2

Date Collected: 07/01/21 12:58

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 93.4

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	0.11	J	0.49	0.049	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 131				07/07/21 09:50	07/08/21 15:45	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-B@0.5'

Lab Sample ID: 320-75699-2

Date Collected: 07/01/21 12:58

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 93.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0097	0.00058	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Acetone	0.0019	J	0.019	0.0014	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Benzene	ND		0.0049	0.00025	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Dichlorobromomethane	ND		0.0049	0.00051	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Bromobenzene	ND		0.0049	0.00050	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Chlorobromomethane	ND		0.0049	0.00091	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Bromoform	ND		0.0049	0.00039	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Bromomethane	ND		0.0049	0.00084	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
2-Butanone (MEK)	ND		0.0097	0.0014	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
n-Butylbenzene	ND		0.0049	0.00064	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
sec-Butylbenzene	ND		0.0049	0.00073	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
tert-Butylbenzene	ND		0.0049	0.00052	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Carbon disulfide	ND		0.0097	0.00048	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Carbon tetrachloride	ND		0.0049	0.00051	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Chlorobenzene	ND		0.0049	0.00028	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Chloroethane	ND		0.0049	0.00044	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Chloroform	ND		0.0049	0.00025	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Chloromethane	ND		0.0049	0.00049	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
2-Chlorotoluene	ND		0.0049	0.00060	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
4-Chlorotoluene	ND		0.0049	0.00084	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Chlorodibromomethane	ND		0.0049	0.00020	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
1,2-Dichlorobenzene	ND		0.0049	0.00062	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
1,3-Dichlorobenzene	ND		0.0049	0.00029	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
1,4-Dichlorobenzene	ND		0.0049	0.00076	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
1,3-Dichloropropane	ND		0.0049	0.00055	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
1,1-Dichloropropene	ND		0.0049	0.00036	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
1,2-Dibromo-3-Chloropropane	ND		0.0097	0.00085	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Ethylene Dibromide	ND		0.0097	0.00026	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Dibromomethane	ND		0.0049	0.00056	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Dichlorodifluoromethane	ND		0.0049	0.00086	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
1,1-Dichloroethane	ND		0.0049	0.00028	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
1,2-Dichloroethane	ND		0.0049	0.00071	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
1,1-Dichloroethene	ND		0.0049	0.00025	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
cis-1,2-Dichloroethene	ND		0.0049	0.00086	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
trans-1,2-Dichloroethene	ND		0.0049	0.00037	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
1,2-Dichloropropane	ND		0.0049	0.00058	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
cis-1,3-Dichloropropene	ND		0.0049	0.00062	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
trans-1,3-Dichloropropene	ND		0.0049	0.00073	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Ethylbenzene	ND		0.0049	0.00033	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Hexachlorobutadiene	ND		0.0049	0.00032	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
2-Hexanone	ND		0.0097	0.00072	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Isopropylbenzene	ND		0.0049	0.00050	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
4-Isopropyltoluene	0.0022	J	0.0049	0.00061	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Methylene Chloride	ND		0.0097	0.00082	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.0097	0.00089	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Naphthalene	ND		0.0049	0.00061	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
N-Propylbenzene	ND		0.0049	0.00028	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
Styrene	ND		0.0049	0.00030	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1
1,1,1,2-Tetrachloroethane	ND		0.0049	0.00040	mg/Kg	✱	07/07/21 09:50	07/08/21 15:45	1

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-B@0.5'

Lab Sample ID: 320-75699-2

Date Collected: 07/01/21 12:58

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 93.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.0049	0.00066	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
Tetrachloroethene	ND		0.0049	0.00059	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
Toluene	ND		0.0049	0.00059	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
1,2,3-Trichlorobenzene	ND		0.0049	0.00073	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
1,2,4-Trichlorobenzene	ND		0.0049	0.00073	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
1,1,1-Trichloroethane	ND		0.0049	0.00035	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
1,1,2-Trichloroethane	ND		0.0049	0.00043	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
Trichloroethene	ND		0.0049	0.00058	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
Trichlorofluoromethane	ND		0.0049	0.00033	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
1,2,3-Trichloropropane	ND		0.0049	0.00074	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0097	0.00081	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
1,2,4-Trimethylbenzene	ND		0.0049	0.00050	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
1,3,5-Trimethylbenzene	ND		0.0049	0.00034	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
Vinyl acetate	ND		0.0097	0.00067	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
Vinyl chloride	ND		0.0049	0.00035	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
Xylenes, Total	ND		0.0049	0.00079	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1
2,2-Dichloropropane	ND		0.0049	0.00037	mg/Kg	☆	07/07/21 09:50	07/08/21 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		63 - 143	07/07/21 09:50	07/08/21 15:45	1
Dibromofluoromethane (Surr)	109		55 - 129	07/07/21 09:50	07/08/21 15:45	1
1,2-Dichloroethane-d4 (Surr)	107		32 - 156	07/07/21 09:50	07/08/21 15:45	1
Toluene-d8 (Surr)	110		63 - 138	07/07/21 09:50	07/08/21 15:45	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		3.5	0.87	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
Bis(2-chloroethyl)ether	ND		3.5	0.85	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
2-Chlorophenol	ND		3.5	0.93	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
1,3-Dichlorobenzene	ND		3.5	0.82	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
1,4-Dichlorobenzene	ND		3.5	0.81	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
Benzyl alcohol	ND		3.5	1.8	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
1,2-Dichlorobenzene	ND		3.5	0.79	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
2-Methylphenol	ND		3.5	0.61	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
N-Nitrosodi-n-propylamine	ND		3.5	0.88	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
Hexachloroethane	ND		3.5	0.85	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
Nitrobenzene	ND		3.5	0.80	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
Isophorone	ND		3.5	0.98	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
2-Nitrophenol	ND		3.5	0.86	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
2,4-Dimethylphenol	ND		3.5	1.8	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
Bis(2-chloroethoxy)methane	ND		3.5	0.93	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
2,4-Dichlorophenol	ND		3.5	0.94	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
1,2,4-Trichlorobenzene	ND		3.5	0.87	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
Naphthalene	ND		3.5	0.86	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
4-Chloroaniline	ND		3.5	0.61	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
Hexachlorobutadiene	ND		3.5	0.86	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
4-Chloro-3-methylphenol	ND		3.5	0.97	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
2-Methylnaphthalene	ND		3.5	0.89	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
Hexachlorocyclopentadiene	ND		17	0.65	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10
2,4,6-Trichlorophenol	ND		3.5	0.88	mg/Kg	☆	07/06/21 09:48	07/12/21 15:07	10

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-B@0.5'

Lab Sample ID: 320-75699-2

Date Collected: 07/01/21 12:58

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 93.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		3.5	0.87	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
2-Chloronaphthalene	ND		3.5	0.85	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
2-Nitroaniline	ND		17	0.88	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Dimethyl phthalate	ND		3.5	0.92	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Acenaphthylene	ND		3.5	0.89	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
3-Nitroaniline	ND		17	1.8	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
3-Methylphenol & 4-Methylphenol	ND		6900	3500	ug/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Acenaphthene	ND		3.5	0.87	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
2,4-Dinitrophenol	ND	+	17	2.3	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
4-Nitrophenol	ND		17	2.9	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Dibenzofuran	ND		3.5	0.91	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
2,4-Dinitrotoluene	ND		3.5	0.94	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
2,6-Dinitrotoluene	ND		3.5	1.0	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Diethyl phthalate	ND		3.5	0.95	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
4-Chlorophenyl phenyl ether	ND		3.5	0.98	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Fluorene	ND		3.5	0.97	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
4-Nitroaniline	ND		17	0.93	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
2-Methyl-4,6-dinitrophenol	ND	+	17	0.85	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
N-Nitrosodiphenylamine	ND		3.5	0.91	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
4-Bromophenyl phenyl ether	ND		3.5	0.89	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Hexachlorobenzene	ND		3.5	0.94	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Pentachlorophenol	ND		17	0.54	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Phenanthrene	ND		3.5	0.99	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Anthracene	ND		3.5	0.91	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Di-n-butyl phthalate	ND		3.5	1.0	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Fluoranthene	ND		3.5	1.0	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Pyrene	ND		3.5	0.99	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Butyl benzyl phthalate	ND		3.5	1.0	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
3,3'-Dichlorobenzidine	ND		17	0.99	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Benzo[a]anthracene	ND		3.5	0.97	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Bis(2-ethylhexyl) phthalate	ND		3.5	1.0	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Chrysene	ND		3.5	0.88	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Di-n-octyl phthalate	ND		3.5	1.0	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Benzo[b]fluoranthene	ND		3.5	1.0	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Benzo[a]pyrene	ND		3.5	0.99	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Benzo[k]fluoranthene	ND		3.5	1.2	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Indeno[1,2,3-cd]pyrene	ND		3.5	1.0	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Benzo[g,h,i]perylene	ND		3.5	1.2	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Benzoic acid	ND		17	3.0	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Azobenzene	ND		3.5	0.97	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Dibenz(a,h)anthracene	ND		3.5	1.1	mg/Kg	✱	07/06/21 09:48	07/12/21 15:07	10
Pyridine	ND		6900	760	ug/Kg	✱	07/06/21 09:48	07/12/21 15:07	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	62		57 - 97	07/06/21 09:48	07/12/21 15:07	10
Terphenyl-d14	77		70 - 112	07/06/21 09:48	07/12/21 15:07	10
2-Fluorophenol	64		56 - 96	07/06/21 09:48	07/12/21 15:07	10
Phenol-d5	67		58 - 98	07/06/21 09:48	07/12/21 15:07	10
2,4,6-Tribromophenol	74		57 - 124	07/06/21 09:48	07/12/21 15:07	10

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-B@0.5'

Lab Sample ID: 320-75699-2

Date Collected: 07/01/21 12:58

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 93.4

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.9		1.1	0.53	mg/Kg	☆	07/08/21 06:45	07/10/21 06:20	1
Motor Oil Range Organics [C24-C36]	19		5.3	4.0	mg/Kg	☆	07/08/21 06:45	07/10/21 06:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	60		51 - 111				07/08/21 06:45	07/10/21 06:20	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.018	0.0015	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Dieldrin	ND		0.018	0.0021	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Endrin aldehyde	ND		0.018	0.0061	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Endrin	ND		0.018	0.0021	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Endrin ketone	ND		0.018	0.0029	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Heptachlor	ND		0.018	0.0016	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Heptachlor epoxide	ND		0.018	0.0019	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
4,4'-DDT	ND		0.018	0.0027	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
4,4'-DDE	ND		0.018	0.0022	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
4,4'-DDD	ND		0.018	0.0024	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Endosulfan I	ND		0.018	0.0019	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Endosulfan II	ND		0.018	0.0019	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
alpha-BHC	ND		0.018	0.0017	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
beta-BHC	ND		0.018	0.0023	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
gamma-BHC (Lindane)	ND		0.018	0.0015	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
delta-BHC	ND		0.018	0.0037	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Endosulfan sulfate	ND		0.018	0.0037	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Methoxychlor	ND		0.036	0.0060	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Toxaphene	ND		0.71	0.24	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Chlordane (technical)	0.16	J p	0.21	0.10	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
cis-Chlordane	0.015	J	0.018	0.0019	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
trans-Chlordane	0.017	J p	0.018	0.0064	mg/Kg	☆	07/06/21 09:24	07/08/21 21:41	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		47 - 107				07/06/21 09:24	07/08/21 21:41	10
Tetrachloro-m-xylene	88		47 - 107				07/06/21 09:24	07/08/21 21:41	10
DCB Decachlorobiphenyl	88		46 - 109				07/06/21 09:24	07/08/21 21:41	10
DCB Decachlorobiphenyl	80		46 - 109				07/06/21 09:24	07/08/21 21:41	10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.035	0.0027	mg/Kg	☆	07/06/21 09:34	07/09/21 21:41	1
PCB-1221	ND		0.035	0.0038	mg/Kg	☆	07/06/21 09:34	07/09/21 21:41	1
PCB-1232	ND		0.035	0.0051	mg/Kg	☆	07/06/21 09:34	07/09/21 21:41	1
PCB-1242	ND		0.035	0.0063	mg/Kg	☆	07/06/21 09:34	07/09/21 21:41	1
PCB-1248	ND		0.035	0.0026	mg/Kg	☆	07/06/21 09:34	07/09/21 21:41	1
PCB-1254	ND		0.035	0.0041	mg/Kg	☆	07/06/21 09:34	07/09/21 21:41	1
PCB-1260	ND		0.035	0.0029	mg/Kg	☆	07/06/21 09:34	07/09/21 21:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		52 - 138				07/06/21 09:34	07/09/21 21:41	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-B@0.5'

Lab Sample ID: 320-75699-2

Date Collected: 07/01/21 12:58

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 93.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.1	0.99	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Arsenic	3.5		2.1	1.4	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Barium	71		1.0	0.13	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Beryllium	0.19	J B	0.21	0.031	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Cadmium	0.071	J	0.21	0.031	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Chromium	47	B	0.52	0.15	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Cobalt	7.2		0.52	0.26	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Copper	16	B	1.6	0.23	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Lead	8.3		1.0	0.27	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Molybdenum	ND		2.1	0.79	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Nickel	46		1.0	0.25	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Selenium	ND		2.1	1.5	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Silver	ND		0.52	0.094	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Thallium	ND		2.1	0.88	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Vanadium	32		0.52	0.20	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1
Zinc	38	B ^2	2.1	0.20	mg/Kg	✱	07/06/21 12:51	07/07/21 11:56	1

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13	J	0.20	0.12	mg/L			07/12/21 14:52	10
Chromium	0.32		0.10	0.0060	mg/L			07/12/21 14:52	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041	J	0.047	0.010	mg/Kg	✱	07/09/21 15:30	07/09/21 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.6		0.1	0.1	%			07/08/21 11:53	1

Client Sample ID: LESMPR-ENV-C@0.5'

Lab Sample ID: 320-75699-3

Date Collected: 07/01/21 11:00

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 83.1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.59	0.059	mg/Kg	✱	07/07/21 09:50	07/08/21 21:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 131				07/07/21 09:50	07/08/21 21:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.012	0.00071	mg/Kg	✱	07/07/21 09:50	07/08/21 21:35	1
Acetone	0.0023	J	0.024	0.0017	mg/Kg	✱	07/07/21 09:50	07/08/21 21:35	1
Benzene	ND		0.0059	0.00031	mg/Kg	✱	07/07/21 09:50	07/08/21 21:35	1
Dichlorobromomethane	ND		0.0059	0.00063	mg/Kg	✱	07/07/21 09:50	07/08/21 21:35	1
Bromobenzene	ND		0.0059	0.00062	mg/Kg	✱	07/07/21 09:50	07/08/21 21:35	1
Chlorobromomethane	ND		0.0059	0.0011	mg/Kg	✱	07/07/21 09:50	07/08/21 21:35	1
Bromoform	ND		0.0059	0.00048	mg/Kg	✱	07/07/21 09:50	07/08/21 21:35	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-C@0.5'

Lab Sample ID: 320-75699-3

Date Collected: 07/01/21 11:00

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.0059	0.0010	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
2-Butanone (MEK)	ND		0.012	0.0017	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
n-Butylbenzene	ND		0.0059	0.00078	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
sec-Butylbenzene	ND		0.0059	0.00089	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
tert-Butylbenzene	ND		0.0059	0.00064	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Carbon disulfide	ND		0.012	0.00058	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Carbon tetrachloride	ND		0.0059	0.00063	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Chlorobenzene	ND		0.0059	0.00034	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Chloroethane	ND		0.0059	0.00054	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Chloroform	ND		0.0059	0.00031	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Chloromethane	ND		0.0059	0.00059	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
2-Chlorotoluene	ND		0.0059	0.00074	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
4-Chlorotoluene	ND		0.0059	0.0010	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Chlorodibromomethane	ND		0.0059	0.00025	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,2-Dichlorobenzene	ND		0.0059	0.00076	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,3-Dichlorobenzene	ND		0.0059	0.00036	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,4-Dichlorobenzene	ND		0.0059	0.00093	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,3-Dichloropropane	ND		0.0059	0.00068	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,1-Dichloropropene	ND		0.0059	0.00044	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,2-Dibromo-3-Chloropropane	ND		0.012	0.0010	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Ethylene Dibromide	ND		0.012	0.00032	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Dibromomethane	ND		0.0059	0.00069	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Dichlorodifluoromethane	ND		0.0059	0.0011	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,1-Dichloroethane	ND		0.0059	0.00034	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,2-Dichloroethane	ND		0.0059	0.00087	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,1-Dichloroethene	ND		0.0059	0.00031	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
cis-1,2-Dichloroethene	ND		0.0059	0.0011	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
trans-1,2-Dichloroethene	ND		0.0059	0.00045	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,2-Dichloropropane	ND		0.0059	0.00071	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
cis-1,3-Dichloropropene	ND		0.0059	0.00076	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
trans-1,3-Dichloropropene	ND		0.0059	0.00089	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Ethylbenzene	ND		0.0059	0.00040	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Hexachlorobutadiene	ND		0.0059	0.00039	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
2-Hexanone	ND		0.012	0.00088	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Isopropylbenzene	ND		0.0059	0.00062	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
4-Isopropyltoluene	ND		0.0059	0.00075	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Methylene Chloride	ND		0.012	0.0010	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
4-Methyl-2-pentanone (MIBK)	ND		0.012	0.0011	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Naphthalene	ND		0.0059	0.00075	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
N-Propylbenzene	ND		0.0059	0.00034	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Styrene	ND		0.0059	0.00037	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,1,1,2-Tetrachloroethane	ND		0.0059	0.00049	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,1,2,2-Tetrachloroethane	ND		0.0059	0.00081	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Tetrachloroethene	ND		0.0059	0.00073	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Toluene	ND		0.0059	0.00073	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,2,3-Trichlorobenzene	ND		0.0059	0.00089	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,2,4-Trichlorobenzene	ND		0.0059	0.00089	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,1,1-Trichloroethane	ND		0.0059	0.00043	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,1,2-Trichloroethane	ND		0.0059	0.00052	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-C@0.5'

Lab Sample ID: 320-75699-3

Date Collected: 07/01/21 11:00

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0059	0.00071	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Trichlorofluoromethane	ND		0.0059	0.00040	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,2,3-Trichloropropane	ND		0.0059	0.00090	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.012	0.00099	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,2,4-Trimethylbenzene	ND		0.0059	0.00061	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
1,3,5-Trimethylbenzene	ND		0.0059	0.00042	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Vinyl acetate	ND		0.012	0.00082	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Vinyl chloride	ND		0.0059	0.00043	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
Xylenes, Total	ND		0.0059	0.00096	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1
2,2-Dichloropropane	ND		0.0059	0.00045	mg/Kg	☆	07/07/21 09:50	07/08/21 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		63 - 143	07/07/21 09:50	07/08/21 21:35	1
Dibromofluoromethane (Surr)	108		55 - 129	07/07/21 09:50	07/08/21 21:35	1
1,2-Dichloroethane-d4 (Surr)	109		32 - 156	07/07/21 09:50	07/08/21 21:35	1
Toluene-d8 (Surr)	111		63 - 138	07/07/21 09:50	07/08/21 21:35	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		23	5.9	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Bis(2-chloroethyl)ether	ND		23	5.7	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2-Chlorophenol	ND		23	6.2	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
1,3-Dichlorobenzene	ND		23	5.5	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
1,4-Dichlorobenzene	ND		23	5.4	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Benzyl alcohol	ND		23	12	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
1,2-Dichlorobenzene	ND		23	5.3	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2-Methylphenol	ND		23	4.1	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
N-Nitrosodi-n-propylamine	ND		23	5.9	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Hexachloroethane	ND		23	5.7	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Nitrobenzene	ND		23	5.4	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Isophorone	ND		23	6.6	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2-Nitrophenol	ND		23	5.8	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2,4-Dimethylphenol	ND		23	12	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Bis(2-chloroethoxy)methane	ND		23	6.2	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2,4-Dichlorophenol	ND		23	6.3	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
1,2,4-Trichlorobenzene	ND		23	5.9	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Naphthalene	ND		23	5.8	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
4-Chloroaniline	ND		23	4.1	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Hexachlorobutadiene	ND		23	5.8	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
4-Chloro-3-methylphenol	ND		23	6.5	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2-Methylnaphthalene	ND		23	6.0	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Hexachlorocyclopentadiene	ND		110	4.4	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2,4,6-Trichlorophenol	ND		23	5.9	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2,4,5-Trichlorophenol	ND		23	5.9	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2-Chloronaphthalene	ND		23	5.7	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2-Nitroaniline	ND		110	5.9	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Dimethyl phthalate	ND		23	6.2	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Acenaphthylene	ND		23	6.0	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
3-Nitroaniline	ND		110	12	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
3-Methylphenol & 4-Methylphenol	ND		47000	23000	ug/Kg	☆	07/06/21 09:48	07/09/21 15:34	20

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-C@0.5'

Lab Sample ID: 320-75699-3

Date Collected: 07/01/21 11:00

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 83.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		23	5.9	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2,4-Dinitrophenol	ND	*+	110	15	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
4-Nitrophenol	ND		110	20	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Dibenzofuran	ND		23	6.1	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2,4-Dinitrotoluene	ND		23	6.3	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2,6-Dinitrotoluene	ND		23	7.0	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Diethyl phthalate	ND		23	6.4	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
4-Chlorophenyl phenyl ether	ND		23	6.6	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Fluorene	ND		23	6.5	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
4-Nitroaniline	ND		110	6.2	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
2-Methyl-4,6-dinitrophenol	ND	*+	110	5.7	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
N-Nitrosodiphenylamine	ND		23	6.1	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
4-Bromophenyl phenyl ether	ND		23	6.0	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Hexachlorobenzene	ND		23	6.3	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Pentachlorophenol	ND		110	3.6	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Phenanthrene	ND		23	6.6	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Anthracene	ND		23	6.1	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Di-n-butyl phthalate	ND		23	6.9	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Fluoranthene	ND		23	6.7	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Pyrene	ND		23	6.6	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Butyl benzyl phthalate	ND		23	6.7	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
3,3'-Dichlorobenzidine	ND		110	6.6	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Benzo[a]anthracene	ND		23	6.5	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Bis(2-ethylhexyl) phthalate	ND		23	6.9	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Chrysene	ND		23	5.9	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Di-n-octyl phthalate	ND		23	6.9	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Benzo[b]fluoranthene	ND		23	6.7	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Benzo[a]pyrene	ND		23	6.6	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Benzo[k]fluoranthene	ND		23	8.0	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Indeno[1,2,3-cd]pyrene	ND		23	6.8	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Benzo[g,h,i]perylene	ND		23	7.8	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Benzoic acid	ND		110	20	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Azobenzene	ND		23	6.5	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Dibenz(a,h)anthracene	ND		23	7.2	mg/Kg	☆	07/06/21 09:48	07/09/21 15:34	20
Pyridine	ND		47000	5100	ug/Kg	☆	07/06/21 09:48	07/09/21 15:34	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	56	S1-	57 - 97	07/06/21 09:48	07/09/21 15:34	20
Terphenyl-d14	74		70 - 112	07/06/21 09:48	07/09/21 15:34	20
2-Fluorophenol	52	S1-	56 - 96	07/06/21 09:48	07/09/21 15:34	20
Phenol-d5	54	S1-	58 - 98	07/06/21 09:48	07/09/21 15:34	20
2,4,6-Tribromophenol	129	S1+	57 - 124	07/06/21 09:48	07/09/21 15:34	20

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	52		12	6.0	mg/Kg	☆	07/08/21 06:45	07/10/21 06:49	10
Motor Oil Range Organics [C24-C36]	280		60	45	mg/Kg	☆	07/08/21 06:45	07/10/21 06:49	10

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-C@0.5'

Lab Sample ID: 320-75699-3

Date Collected: 07/01/21 11:00

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 83.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	59		51 - 111	07/08/21 06:45	07/10/21 06:49	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.020	0.0017	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
Dieldrin	ND		0.020	0.0024	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
Endrin aldehyde	ND		0.020	0.0068	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
Endrin	ND		0.020	0.0024	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
Endrin ketone	ND		0.020	0.0032	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
Heptachlor	ND		0.020	0.0018	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
Heptachlor epoxide	ND		0.020	0.0022	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
4,4'-DDT	ND		0.020	0.0030	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
4,4'-DDE	ND		0.020	0.0025	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
4,4'-DDD	ND		0.020	0.0028	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
Endosulfan I	ND		0.020	0.0022	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
Endosulfan II	ND		0.020	0.0022	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
alpha-BHC	ND		0.020	0.0019	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
beta-BHC	ND		0.020	0.0026	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
gamma-BHC (Lindane)	ND		0.020	0.0017	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
delta-BHC	ND		0.020	0.0042	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
Endosulfan sulfate	ND		0.020	0.0042	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
Methoxychlor	ND		0.041	0.0067	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
Toxaphene	ND		0.80	0.27	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
Chlordane (technical)	ND		0.24	0.11	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
cis-Chlordane	ND		0.020	0.0022	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10
trans-Chlordane	ND		0.020	0.0072	mg/Kg	☆	07/06/21 09:24	07/08/21 21:59	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	233	S1+	47 - 107	07/06/21 09:24	07/08/21 21:59	10
<i>Tetrachloro-m-xylene</i>	102	p	47 - 107	07/06/21 09:24	07/08/21 21:59	10
<i>DCB Decachlorobiphenyl</i>	88		46 - 109	07/06/21 09:24	07/08/21 21:59	10
<i>DCB Decachlorobiphenyl</i>	77		46 - 109	07/06/21 09:24	07/08/21 21:59	10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.040	0.0031	mg/Kg	☆	07/06/21 09:34	07/09/21 22:01	1
PCB-1221	ND		0.040	0.0043	mg/Kg	☆	07/06/21 09:34	07/09/21 22:01	1
PCB-1232	ND		0.040	0.0057	mg/Kg	☆	07/06/21 09:34	07/09/21 22:01	1
PCB-1242	ND		0.040	0.0071	mg/Kg	☆	07/06/21 09:34	07/09/21 22:01	1
PCB-1248	ND		0.040	0.0029	mg/Kg	☆	07/06/21 09:34	07/09/21 22:01	1
PCB-1254	ND		0.040	0.0046	mg/Kg	☆	07/06/21 09:34	07/09/21 22:01	1
PCB-1260	ND		0.040	0.0032	mg/Kg	☆	07/06/21 09:34	07/09/21 22:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	62		52 - 138	07/06/21 09:34	07/09/21 22:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.4	1.1	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Arsenic	5.3		2.4	1.6	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Barium	320		1.2	0.14	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-C@0.5'

Lab Sample ID: 320-75699-3

Date Collected: 07/01/21 11:00

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 83.1

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.48	B	0.24	0.036	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Cadmium	0.067	J	0.24	0.036	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Chromium	55	B	0.60	0.17	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Cobalt	24		0.60	0.30	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Copper	49	B	1.8	0.26	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Lead	8.7		1.2	0.31	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Molybdenum	1.2	J	2.4	0.90	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Nickel	62		1.2	0.29	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Selenium	ND		2.4	1.7	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Silver	ND		0.60	0.11	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Thallium	1.7	J	2.4	1.0	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Vanadium	65		0.60	0.23	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1
Zinc	54	B ^2	2.4	0.23	mg/Kg	☆	07/06/21 12:51	07/07/21 12:00	1

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.12	mg/L			07/12/21 14:56	10
Chromium	0.13		0.10	0.0060	mg/L			07/12/21 14:56	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.066		0.046	0.0099	mg/Kg	☆	07/09/21 15:30	07/09/21 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.9		0.1	0.1	%			07/08/21 11:53	1

Client Sample ID: LESMPR-ENV-D@0.5'

Lab Sample ID: 320-75699-4

Date Collected: 07/01/21 13:30

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 89.1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.50	0.050	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 131	07/07/21 09:50	07/08/21 21:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.010	0.00060	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Acetone	ND		0.020	0.0014	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Benzene	ND		0.0050	0.00026	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Dichlorobromomethane	ND		0.0050	0.00053	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Bromobenzene	ND		0.0050	0.00052	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Chlorobromomethane	ND		0.0050	0.00094	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Bromoform	ND		0.0050	0.00040	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Bromomethane	ND		0.0050	0.00086	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
2-Butanone (MEK)	ND		0.010	0.0014	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
n-Butylbenzene	ND		0.0050	0.00066	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-D@0.5'

Lab Sample ID: 320-75699-4

Date Collected: 07/01/21 13:30

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 89.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0050	0.00075	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
tert-Butylbenzene	ND		0.0050	0.00054	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Carbon disulfide	ND		0.010	0.00049	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Carbon tetrachloride	ND		0.0050	0.00053	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Chlorobenzene	ND		0.0050	0.00029	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Chloroethane	ND		0.0050	0.00045	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Chloroform	ND		0.0050	0.00026	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Chloromethane	ND		0.0050	0.00050	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
2-Chlorotoluene	ND		0.0050	0.00062	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
4-Chlorotoluene	ND		0.0050	0.00086	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Chlorodibromomethane	ND		0.0050	0.00021	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,2-Dichlorobenzene	ND		0.0050	0.00064	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,3-Dichlorobenzene	ND		0.0050	0.00030	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,4-Dichlorobenzene	ND		0.0050	0.00078	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,3-Dichloropropane	ND		0.0050	0.00057	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,1-Dichloropropene	ND		0.0050	0.00037	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.00088	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Ethylene Dibromide	ND		0.010	0.00027	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Dibromomethane	ND		0.0050	0.00058	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Dichlorodifluoromethane	ND		0.0050	0.00089	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,1-Dichloroethane	ND		0.0050	0.00029	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,2-Dichloroethane	ND		0.0050	0.00073	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,1-Dichloroethene	ND		0.0050	0.00026	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
cis-1,2-Dichloroethene	ND		0.0050	0.00089	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
trans-1,2-Dichloroethene	ND		0.0050	0.00038	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,2-Dichloropropane	ND		0.0050	0.00060	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
cis-1,3-Dichloropropene	ND		0.0050	0.00064	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
trans-1,3-Dichloropropene	ND		0.0050	0.00075	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Ethylbenzene	ND		0.0050	0.00034	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Hexachlorobutadiene	ND		0.0050	0.00033	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
2-Hexanone	ND		0.010	0.00074	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Isopropylbenzene	ND		0.0050	0.00052	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
4-Isopropyltoluene	ND		0.0050	0.00063	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Methylene Chloride	ND		0.010	0.00084	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
4-Methyl-2-pentanone (MIBK)	ND		0.010	0.00092	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Naphthalene	ND		0.0050	0.00063	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
N-Propylbenzene	ND		0.0050	0.00029	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Styrene	ND		0.0050	0.00031	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,1,1,2-Tetrachloroethane	ND		0.0050	0.00041	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,1,2,2-Tetrachloroethane	ND		0.0050	0.00068	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Tetrachloroethene	ND		0.0050	0.00061	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Toluene	ND		0.0050	0.00061	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,2,3-Trichlorobenzene	ND		0.0050	0.00075	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,2,4-Trichlorobenzene	ND		0.0050	0.00075	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,1,1-Trichloroethane	ND		0.0050	0.00036	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,1,2-Trichloroethane	ND		0.0050	0.00044	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Trichloroethene	ND		0.0050	0.00060	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Trichlorofluoromethane	ND		0.0050	0.00034	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,2,3-Trichloropropane	ND		0.0050	0.00076	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-D@0.5'

Lab Sample ID: 320-75699-4

Date Collected: 07/01/21 13:30

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 89.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.010	0.00083	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,2,4-Trimethylbenzene	ND		0.0050	0.00051	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
1,3,5-Trimethylbenzene	ND		0.0050	0.00035	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Vinyl acetate	ND		0.010	0.00069	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Vinyl chloride	ND		0.0050	0.00036	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
Xylenes, Total	ND		0.0050	0.00081	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1
2,2-Dichloropropane	ND		0.0050	0.00038	mg/Kg	☆	07/07/21 09:50	07/08/21 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		63 - 143	07/07/21 09:50	07/08/21 21:57	1
Dibromofluoromethane (Surr)	107		55 - 129	07/07/21 09:50	07/08/21 21:57	1
1,2-Dichloroethane-d4 (Surr)	106		32 - 156	07/07/21 09:50	07/08/21 21:57	1
Toluene-d8 (Surr)	112		63 - 138	07/07/21 09:50	07/08/21 21:57	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		7.3	1.8	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Bis(2-chloroethyl)ether	ND		7.3	1.8	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2-Chlorophenol	ND		7.3	2.0	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
1,3-Dichlorobenzene	ND		7.3	1.7	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
1,4-Dichlorobenzene	ND		7.3	1.7	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Benzyl alcohol	ND		7.3	3.8	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
1,2-Dichlorobenzene	ND		7.3	1.7	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2-Methylphenol	ND		7.3	1.3	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
N-Nitrosodi-n-propylamine	ND		7.3	1.9	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Hexachloroethane	ND		7.3	1.8	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Nitrobenzene	ND		7.3	1.7	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Isophorone	ND		7.3	2.1	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2-Nitrophenol	ND		7.3	1.8	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2,4-Dimethylphenol	ND		7.3	3.7	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Bis(2-chloroethoxy)methane	ND		7.3	2.0	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2,4-Dichlorophenol	ND		7.3	2.0	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
1,2,4-Trichlorobenzene	ND		7.3	1.8	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Naphthalene	ND		7.3	1.8	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
4-Chloroaniline	ND		7.3	1.3	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Hexachlorobutadiene	ND		7.3	1.8	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
4-Chloro-3-methylphenol	ND		7.3	2.0	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2-Methylnaphthalene	ND		7.3	1.9	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Hexachlorocyclopentadiene	ND		35	1.4	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2,4,6-Trichlorophenol	ND		7.3	1.9	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2,4,5-Trichlorophenol	ND		7.3	1.8	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2-Chloronaphthalene	ND		7.3	1.8	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2-Nitroaniline	ND		35	1.9	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Dimethyl phthalate	ND		7.3	1.9	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Acenaphthylene	ND		7.3	1.9	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
3-Nitroaniline	ND		35	3.7	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
3-Methylphenol & 4-Methylphenol	ND		15000	7300	ug/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Acenaphthene	ND		7.3	1.8	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2,4-Dinitrophenol	ND	+	35	4.7	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
4-Nitrophenol	ND		35	6.2	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-D@0.5'

Lab Sample ID: 320-75699-4

Date Collected: 07/01/21 13:30

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 89.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		7.3	1.9	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2,4-Dinitrotoluene	ND		7.3	2.0	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2,6-Dinitrotoluene	ND		7.3	2.2	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Diethyl phthalate	ND		7.3	2.0	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
4-Chlorophenyl phenyl ether	ND		7.3	2.1	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Fluorene	ND		7.3	2.0	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
4-Nitroaniline	ND		35	2.0	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
2-Methyl-4,6-dinitrophenol	ND	+	35	1.8	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
N-Nitrosodiphenylamine	ND		7.3	1.9	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
4-Bromophenyl phenyl ether	ND		7.3	1.9	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Hexachlorobenzene	ND		7.3	2.0	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Pentachlorophenol	ND		35	1.1	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Phenanthrene	ND		7.3	2.1	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Anthracene	ND		7.3	1.9	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Di-n-butyl phthalate	ND		7.3	2.2	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Fluoranthene	ND		7.3	2.1	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Pyrene	ND		7.3	2.1	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Butyl benzyl phthalate	ND		7.3	2.1	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
3,3'-Dichlorobenzidine	ND		35	2.1	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Benzo[a]anthracene	ND		7.3	2.0	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Bis(2-ethylhexyl) phthalate	ND		7.3	2.2	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Chrysene	ND		7.3	1.9	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Di-n-octyl phthalate	ND		7.3	2.2	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Benzo[b]fluoranthene	ND		7.3	2.1	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Benzo[a]pyrene	ND		7.3	2.1	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Benzo[k]fluoranthene	ND		7.3	2.5	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Indeno[1,2,3-cd]pyrene	ND		7.3	2.1	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Benzo[g,h,i]perylene	ND		7.3	2.4	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Benzoic acid	ND		35	6.4	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Azobenzene	ND		7.3	2.0	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Dibenz(a,h)anthracene	ND		7.3	2.3	mg/Kg	☆	07/06/21 09:48	07/09/21 16:02	20
Pyridine	ND		15000	1600	ug/Kg	☆	07/06/21 09:48	07/09/21 16:02	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		57 - 97	07/06/21 09:48	07/09/21 16:02	20
Terphenyl-d14	86		70 - 112	07/06/21 09:48	07/09/21 16:02	20
2-Fluorophenol	70		56 - 96	07/06/21 09:48	07/09/21 16:02	20
Phenol-d5	70		58 - 98	07/06/21 09:48	07/09/21 16:02	20
2,4,6-Tribromophenol	88		57 - 124	07/06/21 09:48	07/09/21 16:02	20

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13	F1	11	5.6	mg/Kg	☆	07/08/21 06:45	07/10/21 07:17	10
Motor Oil Range Organics [C24-C36]	87	F1	56	42	mg/Kg	☆	07/08/21 06:45	07/10/21 07:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	67		51 - 111	07/08/21 06:45	07/10/21 07:17	10

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-D@0.5'

Lab Sample ID: 320-75699-4

Date Collected: 07/01/21 13:30

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 89.1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.019	0.0015	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
Dieldrin	ND		0.019	0.0022	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
Endrin aldehyde	ND		0.019	0.0062	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
Endrin	ND		0.019	0.0022	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
Endrin ketone	ND		0.019	0.0029	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
Heptachlor	ND		0.019	0.0016	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
Heptachlor epoxide	ND		0.019	0.0020	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
4,4'-DDT	0.0049	J	0.019	0.0027	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
4,4'-DDE	ND		0.019	0.0023	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
4,4'-DDD	ND		0.019	0.0025	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
Endosulfan I	ND		0.019	0.0020	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
Endosulfan II	ND		0.019	0.0020	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
alpha-BHC	ND		0.019	0.0017	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
beta-BHC	ND		0.019	0.0024	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
gamma-BHC (Lindane)	ND		0.019	0.0015	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
delta-BHC	ND		0.019	0.0038	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
Endosulfan sulfate	ND		0.019	0.0038	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
Methoxychlor	ND		0.037	0.0061	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
Toxaphene	ND		0.73	0.24	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
Chlordane (technical)	ND		0.22	0.10	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
cis-Chlordane	ND		0.019	0.0020	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10
trans-Chlordane	ND		0.019	0.0065	mg/Kg	☆	07/06/21 09:24	07/08/21 22:18	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	129	S1+	47 - 107	07/06/21 09:24	07/08/21 22:18	10
Tetrachloro-m-xylene	88		47 - 107	07/06/21 09:24	07/08/21 22:18	10
DCB Decachlorobiphenyl	81		46 - 109	07/06/21 09:24	07/08/21 22:18	10
DCB Decachlorobiphenyl	71		46 - 109	07/06/21 09:24	07/08/21 22:18	10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.036	0.0028	mg/Kg	☆	07/06/21 09:34	07/09/21 22:21	1
PCB-1221	ND		0.036	0.0040	mg/Kg	☆	07/06/21 09:34	07/09/21 22:21	1
PCB-1232	ND		0.036	0.0052	mg/Kg	☆	07/06/21 09:34	07/09/21 22:21	1
PCB-1242	ND		0.036	0.0064	mg/Kg	☆	07/06/21 09:34	07/09/21 22:21	1
PCB-1248	ND		0.036	0.0027	mg/Kg	☆	07/06/21 09:34	07/09/21 22:21	1
PCB-1254	ND		0.036	0.0042	mg/Kg	☆	07/06/21 09:34	07/09/21 22:21	1
PCB-1260	ND		0.036	0.0029	mg/Kg	☆	07/06/21 09:34	07/09/21 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		52 - 138	07/06/21 09:34	07/09/21 22:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.2	1.0	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Arsenic	7.0		2.2	1.4	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Barium	180		1.1	0.13	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Beryllium	0.21	J B	0.22	0.032	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Cadmium	0.42		0.22	0.032	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Chromium	63	B	0.54	0.15	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-D@0.5'

Lab Sample ID: 320-75699-4

Date Collected: 07/01/21 13:30

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 89.1

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	23		0.54	0.27	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Copper	41	B	1.6	0.24	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Lead	12		1.1	0.28	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Molybdenum	ND		2.2	0.81	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Nickel	200		1.1	0.26	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Selenium	ND		2.2	1.5	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Silver	ND		0.54	0.097	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Thallium	1.1	J	2.2	0.91	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Vanadium	63		0.54	0.20	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1
Zinc	75	B ^2	2.2	0.20	mg/Kg	☆	07/06/21 12:51	07/07/21 12:04	1

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.12	mg/L			07/12/21 15:00	10
Chromium	0.18		0.10	0.0060	mg/L			07/12/21 15:00	10
Nickel	2.1	B	0.10	0.012	mg/L			07/12/21 15:00	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.043	0.0093	mg/Kg	☆	07/09/21 15:30	07/09/21 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.9		0.1	0.1	%			07/08/21 11:53	1

Surrogate Summary

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (63-143)	DBFM (55-129)	DCA (32-156)	TOL (63-138)
320-75699-1	LESMPR-ENV-A@0.5'	111	110	108	111
320-75699-2	LESMPR-ENV-B@0.5'	112	109	107	110
320-75699-3	LESMPR-ENV-C@0.5'	110	108	109	111
320-75699-4	LESMPR-ENV-D@0.5'	111	107	106	112
LCS 320-505017/8	Lab Control Sample	111	107	102	112
LCSD 320-505017/9	Lab Control Sample Dup	114	104	98	113
MB 320-505017/11	Method Blank	114	110	108	114

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (70-131)			
320-75699-1	LESMPR-ENV-A@0.5'	111			
320-75699-2	LESMPR-ENV-B@0.5'	112			
320-75699-3	LESMPR-ENV-C@0.5'	110			
320-75699-4	LESMPR-ENV-D@0.5'	111			
LCS 320-505019/4	Lab Control Sample	112			
LCSD 320-505019/5	Lab Control Sample Dup	109			
MB 320-505019/11	Method Blank	114			

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)				
		NBZ (57-97)	TPHL (70-112)	2FP (56-96)	PHL (58-98)	TBP (57-124)
320-75699-1	LESMPR-ENV-A@0.5'	58	77	60	67	135 S1+
320-75699-2	LESMPR-ENV-B@0.5'	62	77	64	67	74
320-75699-3	LESMPR-ENV-C@0.5'	56 S1-	74	52 S1-	54 S1-	129 S1+
320-75699-4	LESMPR-ENV-D@0.5'	66	86	70	70	88
LCS 320-504213/2-A	Lab Control Sample	101 S1+	109	92	93	109
MB 320-504213/1-A	Method Blank	82	105	87	90	68

Surrogate Legend

NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
2FP = 2-Fluorophenol
PHL = Phenol-d5
TBP = 2,4,6-Tribromophenol

Eurofins TestAmerica, Sacramento

Surrogate Summary

Client: Cleary Consultants, Inc

Job ID: 320-75699-1

Project/Site: Horral/Lead Elementary School-MRP Building

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Silica Gel Cleanup

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (51-111)
320-75699-1	LESMPR-ENV-A@0.5'	66
320-75699-2	LESMPR-ENV-B@0.5'	60
320-75699-3	LESMPR-ENV-C@0.5'	59
320-75699-4	LESMPR-ENV-D@0.5'	67
320-75699-4 MS	LESMPR-ENV-D@0.5'	74
320-75699-4 MSD	LESMPR-ENV-D@0.5'	66
LCS 320-504929/2-A	Lab Control Sample	82
MB 320-504929/1-A	Method Blank	66

Surrogate Legend

OTPH = o-Terphenyl (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (47-107)	TCX2 (47-107)	DCBP1 (46-109)	DCBP2 (46-109)
320-75699-1	LESMPR-ENV-A@0.5'	111 S1+	85	73	80
320-75699-2	LESMPR-ENV-B@0.5'	96	88	88	80
320-75699-3	LESMPR-ENV-C@0.5'	233 S1+	102 p	88	77
320-75699-4	LESMPR-ENV-D@0.5'	129 S1+	88	81	71
LCS 320-504191/2-A	Lab Control Sample	78		71	
LCS 320-504191/3-A	Lab Control Sample	82		70	
LCS 320-504191/4-A	Lab Control Sample	84		75	
MB 320-504191/1-A	Method Blank	72	79	78	88

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP2 (52-138)
320-75699-1	LESMPR-ENV-A@0.5'	71
320-75699-2	LESMPR-ENV-B@0.5'	68
320-75699-3	LESMPR-ENV-C@0.5'	62
320-75699-4	LESMPR-ENV-D@0.5'	62
LCS 320-504203/2-A	Lab Control Sample	109
MB 320-504203/1-A	Method Blank	88

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 320-505017/11

Matrix: Solid

Analysis Batch: 505017

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.010	0.00060	mg/Kg			07/08/21 15:02	1
Acetone	ND		0.020	0.0014	mg/Kg			07/08/21 15:02	1
Benzene	ND		0.0050	0.00026	mg/Kg			07/08/21 15:02	1
Dichlorobromomethane	ND		0.0050	0.00053	mg/Kg			07/08/21 15:02	1
Bromobenzene	ND		0.0050	0.00052	mg/Kg			07/08/21 15:02	1
Chlorobromomethane	ND		0.0050	0.00094	mg/Kg			07/08/21 15:02	1
Bromoform	ND		0.0050	0.00040	mg/Kg			07/08/21 15:02	1
Bromomethane	ND		0.0050	0.00086	mg/Kg			07/08/21 15:02	1
2-Butanone (MEK)	ND		0.010	0.0014	mg/Kg			07/08/21 15:02	1
n-Butylbenzene	ND		0.0050	0.00066	mg/Kg			07/08/21 15:02	1
sec-Butylbenzene	ND		0.0050	0.00075	mg/Kg			07/08/21 15:02	1
tert-Butylbenzene	ND		0.0050	0.00054	mg/Kg			07/08/21 15:02	1
Carbon disulfide	ND		0.010	0.00049	mg/Kg			07/08/21 15:02	1
Carbon tetrachloride	ND		0.0050	0.00053	mg/Kg			07/08/21 15:02	1
Chlorobenzene	ND		0.0050	0.00029	mg/Kg			07/08/21 15:02	1
Chloroethane	ND		0.0050	0.00045	mg/Kg			07/08/21 15:02	1
Chloroform	ND		0.0050	0.00026	mg/Kg			07/08/21 15:02	1
Chloromethane	ND		0.0050	0.00050	mg/Kg			07/08/21 15:02	1
2-Chlorotoluene	ND		0.0050	0.00062	mg/Kg			07/08/21 15:02	1
4-Chlorotoluene	ND		0.0050	0.00086	mg/Kg			07/08/21 15:02	1
Chlorodibromomethane	ND		0.0050	0.00021	mg/Kg			07/08/21 15:02	1
1,2-Dichlorobenzene	ND		0.0050	0.00064	mg/Kg			07/08/21 15:02	1
1,3-Dichlorobenzene	ND		0.0050	0.00030	mg/Kg			07/08/21 15:02	1
1,4-Dichlorobenzene	ND		0.0050	0.00078	mg/Kg			07/08/21 15:02	1
1,3-Dichloropropane	ND		0.0050	0.00057	mg/Kg			07/08/21 15:02	1
1,1-Dichloropropene	ND		0.0050	0.00037	mg/Kg			07/08/21 15:02	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.00088	mg/Kg			07/08/21 15:02	1
Ethylene Dibromide	ND		0.010	0.00027	mg/Kg			07/08/21 15:02	1
Dibromomethane	ND		0.0050	0.00058	mg/Kg			07/08/21 15:02	1
Dichlorodifluoromethane	ND		0.0050	0.00089	mg/Kg			07/08/21 15:02	1
1,1-Dichloroethane	ND		0.0050	0.00029	mg/Kg			07/08/21 15:02	1
1,2-Dichloroethane	ND		0.0050	0.00073	mg/Kg			07/08/21 15:02	1
1,1-Dichloroethene	ND		0.0050	0.00026	mg/Kg			07/08/21 15:02	1
cis-1,2-Dichloroethene	ND		0.0050	0.00089	mg/Kg			07/08/21 15:02	1
trans-1,2-Dichloroethene	ND		0.0050	0.00038	mg/Kg			07/08/21 15:02	1
1,2-Dichloropropane	ND		0.0050	0.00060	mg/Kg			07/08/21 15:02	1
cis-1,3-Dichloropropene	ND		0.0050	0.00064	mg/Kg			07/08/21 15:02	1
trans-1,3-Dichloropropene	ND		0.0050	0.00075	mg/Kg			07/08/21 15:02	1
Ethylbenzene	ND		0.0050	0.00034	mg/Kg			07/08/21 15:02	1
Hexachlorobutadiene	ND		0.0050	0.00033	mg/Kg			07/08/21 15:02	1
2-Hexanone	ND		0.010	0.00074	mg/Kg			07/08/21 15:02	1
Isopropylbenzene	ND		0.0050	0.00052	mg/Kg			07/08/21 15:02	1
4-Isopropyltoluene	ND		0.0050	0.00063	mg/Kg			07/08/21 15:02	1
Methylene Chloride	ND		0.010	0.00084	mg/Kg			07/08/21 15:02	1
4-Methyl-2-pentanone (MIBK)	ND		0.010	0.00092	mg/Kg			07/08/21 15:02	1
Naphthalene	ND		0.0050	0.00063	mg/Kg			07/08/21 15:02	1
N-Propylbenzene	ND		0.0050	0.00029	mg/Kg			07/08/21 15:02	1
Styrene	ND		0.0050	0.00031	mg/Kg			07/08/21 15:02	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-505017/11

Matrix: Solid

Analysis Batch: 505017

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0050	0.00041	mg/Kg			07/08/21 15:02	1
1,1,2,2-Tetrachloroethane	ND		0.0050	0.00068	mg/Kg			07/08/21 15:02	1
Tetrachloroethene	ND		0.0050	0.00061	mg/Kg			07/08/21 15:02	1
Toluene	ND		0.0050	0.00061	mg/Kg			07/08/21 15:02	1
1,2,3-Trichlorobenzene	ND		0.0050	0.00075	mg/Kg			07/08/21 15:02	1
1,2,4-Trichlorobenzene	ND		0.0050	0.00075	mg/Kg			07/08/21 15:02	1
1,1,1-Trichloroethane	ND		0.0050	0.00036	mg/Kg			07/08/21 15:02	1
1,1,2-Trichloroethane	ND		0.0050	0.00044	mg/Kg			07/08/21 15:02	1
Trichloroethene	ND		0.0050	0.00060	mg/Kg			07/08/21 15:02	1
Trichlorofluoromethane	ND		0.0050	0.00034	mg/Kg			07/08/21 15:02	1
1,2,3-Trichloropropane	ND		0.0050	0.00076	mg/Kg			07/08/21 15:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.010	0.00083	mg/Kg			07/08/21 15:02	1
1,2,4-Trimethylbenzene	ND		0.0050	0.00051	mg/Kg			07/08/21 15:02	1
1,3,5-Trimethylbenzene	ND		0.0050	0.00035	mg/Kg			07/08/21 15:02	1
Vinyl acetate	ND		0.010	0.00069	mg/Kg			07/08/21 15:02	1
Vinyl chloride	ND		0.0050	0.00036	mg/Kg			07/08/21 15:02	1
Xylenes, Total	ND		0.0050	0.00081	mg/Kg			07/08/21 15:02	1
2,2-Dichloropropane	ND		0.0050	0.00038	mg/Kg			07/08/21 15:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		63 - 143		07/08/21 15:02	1
Dibromofluoromethane (Surr)	110		55 - 129		07/08/21 15:02	1
1,2-Dichloroethane-d4 (Surr)	108		32 - 156		07/08/21 15:02	1
Toluene-d8 (Surr)	114		63 - 138		07/08/21 15:02	1

Lab Sample ID: LCS 320-505017/8

Matrix: Solid

Analysis Batch: 505017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	0.0500	0.0540		mg/Kg		108	66 - 146
Acetone	0.0500	0.0544		mg/Kg		109	64 - 128
Benzene	0.0500	0.0555		mg/Kg		111	78 - 128
Dichlorobromomethane	0.0500	0.0571		mg/Kg		114	80 - 137
Bromobenzene	0.0500	0.0545		mg/Kg		109	67 - 132
Chlorobromomethane	0.0500	0.0547		mg/Kg		109	80 - 127
Bromoform	0.0500	0.0521		mg/Kg		104	80 - 136
Bromomethane	0.0500	0.0501		mg/Kg		100	48 - 164
2-Butanone (MEK)	0.0500	0.0536		mg/Kg		107	71 - 142
n-Butylbenzene	0.0500	0.0564		mg/Kg		113	68 - 136
sec-Butylbenzene	0.0500	0.0564		mg/Kg		113	68 - 131
tert-Butylbenzene	0.0500	0.0557		mg/Kg		111	67 - 131
Carbon disulfide	0.0500	0.0501		mg/Kg		100	52 - 145
Carbon tetrachloride	0.0500	0.0553		mg/Kg		111	62 - 154
Chlorobenzene	0.0500	0.0555		mg/Kg		111	74 - 125
Chloroethane	0.0500	0.0551		mg/Kg		110	54 - 148
Chloroform	0.0500	0.0561		mg/Kg		112	78 - 135
Chloromethane	0.0500	0.0474		mg/Kg		95	60 - 141

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-505017/8

Matrix: Solid

Analysis Batch: 505017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	0.0500	0.0559		mg/Kg		112	64 - 127
4-Chlorotoluene	0.0500	0.0554		mg/Kg		111	67 - 128
Chlorodibromomethane	0.0500	0.0575		mg/Kg		115	80 - 133
1,2-Dichlorobenzene	0.0500	0.0557		mg/Kg		111	68 - 121
1,3-Dichlorobenzene	0.0500	0.0551		mg/Kg		110	64 - 126
1,4-Dichlorobenzene	0.0500	0.0556		mg/Kg		111	65 - 124
1,3-Dichloropropane	0.0500	0.0553		mg/Kg		111	80 - 123
1,1-Dichloropropene	0.0500	0.0521		mg/Kg		104	76 - 132
1,2-Dibromo-3-Chloropropane	0.0500	0.0505		mg/Kg		101	75 - 137
Ethylene Dibromide	0.0500	0.0542		mg/Kg		108	80 - 124
Dibromomethane	0.0500	0.0563		mg/Kg		113	80 - 129
Dichlorodifluoromethane	0.0500	0.0313		mg/Kg		63	60 - 130
1,1-Dichloroethane	0.0500	0.0562		mg/Kg		112	76 - 134
1,2-Dichloroethane	0.0500	0.0572		mg/Kg		114	66 - 150
1,1-Dichloroethene	0.0500	0.0526		mg/Kg		105	66 - 136
cis-1,2-Dichloroethene	0.0500	0.0575		mg/Kg		115	74 - 131
trans-1,2-Dichloroethene	0.0500	0.0567		mg/Kg		113	67 - 135
1,2-Dichloropropane	0.0500	0.0565		mg/Kg		113	80 - 129
cis-1,3-Dichloropropene	0.0500	0.0563		mg/Kg		113	80 - 134
trans-1,3-Dichloropropene	0.0500	0.0528		mg/Kg		106	80 - 148
Ethylbenzene	0.0500	0.0552		mg/Kg		110	72 - 125
Hexachlorobutadiene	0.0500	0.0571		mg/Kg		114	52 - 140
2-Hexanone	0.0500	0.0557		mg/Kg		111	78 - 143
Isopropylbenzene	0.0500	0.0557		mg/Kg		111	69 - 137
4-Isopropyltoluene	0.0500	0.0563		mg/Kg		113	64 - 137
Methylene Chloride	0.0500	0.0577		mg/Kg		115	77 - 125
4-Methyl-2-pentanone (MIBK)	0.0500	0.0546		mg/Kg		109	79 - 150
Naphthalene	0.0500	0.0526		mg/Kg		105	53 - 140
N-Propylbenzene	0.0500	0.0555		mg/Kg		111	63 - 128
Styrene	0.0500	0.0542		mg/Kg		108	79 - 128
1,1,1,2-Tetrachloroethane	0.0500	0.0551		mg/Kg		110	77 - 134
1,1,2,2-Tetrachloroethane	0.0500	0.0529		mg/Kg		106	71 - 134
Tetrachloroethene	0.0500	0.0552		mg/Kg		110	65 - 135
Toluene	0.0500	0.0559		mg/Kg		112	80 - 124
1,2,3-Trichlorobenzene	0.0500	0.0549		mg/Kg		110	54 - 140
1,2,4-Trichlorobenzene	0.0500	0.0553		mg/Kg		111	48 - 145
1,1,1-Trichloroethane	0.0500	0.0551		mg/Kg		110	67 - 150
1,1,2-Trichloroethane	0.0500	0.0554		mg/Kg		111	80 - 128
Trichloroethene	0.0500	0.0536		mg/Kg		107	80 - 126
Trichlorofluoromethane	0.0500	0.0504		mg/Kg		101	43 - 158
1,2,3-Trichloropropane	0.0500	0.0511		mg/Kg		102	71 - 132
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0530		mg/Kg		106	62 - 138
1,2,4-Trimethylbenzene	0.0500	0.0560		mg/Kg		112	64 - 137
1,3,5-Trimethylbenzene	0.0500	0.0562		mg/Kg		112	66 - 135
Vinyl acetate	0.0500	0.0565		mg/Kg		113	39 - 160
Vinyl chloride	0.0500	0.0490		mg/Kg		98	67 - 127
m-Xylene & p-Xylene	0.0500	0.0557		mg/Kg		111	73 - 128
o-Xylene	0.0500	0.0562		mg/Kg		112	76 - 127

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-505017/8

Matrix: Solid

Analysis Batch: 505017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	0.100	0.112		mg/Kg		112	75 - 122
2,2-Dichloropropane	0.0500	0.0552		mg/Kg		110	69 - 153

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		63 - 143
Dibromofluoromethane (Surr)	107		55 - 129
1,2-Dichloroethane-d4 (Surr)	102		32 - 156
Toluene-d8 (Surr)	112		63 - 138

Lab Sample ID: LCSD 320-505017/9

Matrix: Solid

Analysis Batch: 505017

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	0.0500	0.0568		mg/Kg		114	66 - 146	5	45
Acetone	0.0500	0.0684	*+	mg/Kg		137	64 - 128	23	36
Benzene	0.0500	0.0598		mg/Kg		120	78 - 128	7	37
Dichlorobromomethane	0.0500	0.0600		mg/Kg		120	80 - 137	5	37
Bromobenzene	0.0500	0.0600		mg/Kg		120	67 - 132	10	40
Chlorobromomethane	0.0500	0.0566		mg/Kg		113	80 - 127	3	36
Bromoform	0.0500	0.0550		mg/Kg		110	80 - 136	5	45
Bromomethane	0.0500	0.0542		mg/Kg		108	48 - 164	8	38
2-Butanone (MEK)	0.0500	0.0603		mg/Kg		121	71 - 142	12	44
n-Butylbenzene	0.0500	0.0689	*+	mg/Kg		138	68 - 136	20	37
sec-Butylbenzene	0.0500	0.0671	*+	mg/Kg		134	68 - 131	17	40
tert-Butylbenzene	0.0500	0.0651		mg/Kg		130	67 - 131	16	42
Carbon disulfide	0.0500	0.0552		mg/Kg		110	52 - 145	10	46
Carbon tetrachloride	0.0500	0.0631		mg/Kg		126	62 - 154	13	43
Chlorobenzene	0.0500	0.0612		mg/Kg		122	74 - 125	10	38
Chloroethane	0.0500	0.0614		mg/Kg		123	54 - 148	11	34
Chloroform	0.0500	0.0591		mg/Kg		118	78 - 135	5	23
Chloromethane	0.0500	0.0512		mg/Kg		102	60 - 141	8	36
2-Chlorotoluene	0.0500	0.0628		mg/Kg		126	64 - 127	12	41
4-Chlorotoluene	0.0500	0.0636		mg/Kg		127	67 - 128	14	40
Chlorodibromomethane	0.0500	0.0591		mg/Kg		118	80 - 133	3	24
1,2-Dichlorobenzene	0.0500	0.0608	*+	mg/Kg		122	68 - 121	9	28
1,3-Dichlorobenzene	0.0500	0.0614		mg/Kg		123	64 - 126	11	41
1,4-Dichlorobenzene	0.0500	0.0624	*+	mg/Kg		125	65 - 124	12	38
1,3-Dichloropropane	0.0500	0.0578		mg/Kg		116	80 - 123	4	39
1,1-Dichloropropene	0.0500	0.0600		mg/Kg		120	76 - 132	14	38
1,2-Dibromo-3-Chloropropane	0.0500	0.0549		mg/Kg		110	75 - 137	8	48
Ethylene Dibromide	0.0500	0.0573		mg/Kg		115	80 - 124	6	39
Dibromomethane	0.0500	0.0581		mg/Kg		116	80 - 129	3	37
Dichlorodifluoromethane	0.0500	0.0365		mg/Kg		73	60 - 130	15	46
1,1-Dichloroethane	0.0500	0.0599		mg/Kg		120	76 - 134	6	24
1,2-Dichloroethane	0.0500	0.0589		mg/Kg		118	66 - 150	3	36
1,1-Dichloroethene	0.0500	0.0597		mg/Kg		119	66 - 136	13	42
cis-1,2-Dichloroethene	0.0500	0.0618		mg/Kg		124	74 - 131	7	37

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-505017/9

Matrix: Solid

Analysis Batch: 505017

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0500	0.0618		mg/Kg		124	67 - 135	8	37
1,2-Dichloropropane	0.0500	0.0612		mg/Kg		122	80 - 129	8	38
cis-1,3-Dichloropropene	0.0500	0.0582		mg/Kg		116	80 - 134	3	39
trans-1,3-Dichloropropene	0.0500	0.0547		mg/Kg		109	80 - 148	4	42
Ethylbenzene	0.0500	0.0627		mg/Kg		125	72 - 125	13	41
Hexachlorobutadiene	0.0500	0.0714	*+	mg/Kg		143	52 - 140	22	38
2-Hexanone	0.0500	0.0617		mg/Kg		123	78 - 143	10	73
Isopropylbenzene	0.0500	0.0650		mg/Kg		130	69 - 137	15	41
4-Isopropyltoluene	0.0500	0.0673		mg/Kg		135	64 - 137	18	40
Methylene Chloride	0.0500	0.0599		mg/Kg		120	77 - 125	4	25
4-Methyl-2-pentanone (MIBK)	0.0500	0.0578		mg/Kg		116	79 - 150	6	48
Naphthalene	0.0500	0.0582		mg/Kg		116	53 - 140	10	46
N-Propylbenzene	0.0500	0.0646	*+	mg/Kg		129	63 - 128	15	42
Styrene	0.0500	0.0589		mg/Kg		118	79 - 128	8	40
1,1,1,2-Tetrachloroethane	0.0500	0.0607		mg/Kg		121	77 - 134	10	25
1,1,2,2-Tetrachloroethane	0.0500	0.0587		mg/Kg		117	71 - 134	10	31
Tetrachloroethene	0.0500	0.0627		mg/Kg		125	65 - 135	13	39
Toluene	0.0500	0.0597		mg/Kg		119	80 - 124	7	39
1,2,3-Trichlorobenzene	0.0500	0.0630		mg/Kg		126	54 - 140	14	42
1,2,4-Trichlorobenzene	0.0500	0.0656		mg/Kg		131	48 - 145	17	39
1,1,1-Trichloroethane	0.0500	0.0612		mg/Kg		122	67 - 150	10	43
1,1,2-Trichloroethane	0.0500	0.0574		mg/Kg		115	80 - 128	4	41
Trichloroethene	0.0500	0.0589		mg/Kg		118	80 - 126	9	40
Trichlorofluoromethane	0.0500	0.0582		mg/Kg		116	43 - 158	14	32
1,2,3-Trichloropropane	0.0500	0.0536		mg/Kg		107	71 - 132	5	41
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0627		mg/Kg		125	62 - 138	17	22
1,2,4-Trimethylbenzene	0.0500	0.0643		mg/Kg		129	64 - 137	14	41
1,3,5-Trimethylbenzene	0.0500	0.0655		mg/Kg		131	66 - 135	15	42
Vinyl acetate	0.0500	0.0586		mg/Kg		117	39 - 160	4	50
Vinyl chloride	0.0500	0.0554		mg/Kg		111	67 - 127	12	37
m-Xylene & p-Xylene	0.0500	0.0633		mg/Kg		127	73 - 128	13	40
o-Xylene	0.0500	0.0623		mg/Kg		125	76 - 127	10	40
Xylenes, Total	0.100	0.126	*+	mg/Kg		126	75 - 122	12	15
2,2-Dichloropropane	0.0500	0.0629		mg/Kg		126	69 - 153	13	47

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		63 - 143
Dibromofluoromethane (Surr)	104		55 - 129
1,2-Dichloroethane-d4 (Surr)	98		32 - 156
Toluene-d8 (Surr)	113		63 - 138

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 320-505019/11

Matrix: Solid

Analysis Batch: 505019

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.50	0.050	mg/Kg			07/08/21 15:02	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 131					07/08/21 15:02	1

Lab Sample ID: LCS 320-505019/4

Matrix: Solid

Analysis Batch: 505019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C4-C12	1.00	1.13		mg/Kg		113	79 - 123		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	112		70 - 131						

Lab Sample ID: LCSD 320-505019/5

Matrix: Solid

Analysis Batch: 505019

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C4-C12	1.00	1.08		mg/Kg		108	79 - 123	4	30
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	109		70 - 131						

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 320-504213/1-A

Matrix: Solid

Analysis Batch: 505293

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 504213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.33	0.083	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Bis(2-chloroethyl)ether	ND		0.33	0.081	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2-Chlorophenol	ND		0.33	0.088	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
1,3-Dichlorobenzene	ND		0.33	0.078	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
1,4-Dichlorobenzene	ND		0.33	0.077	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Benzyl alcohol	ND		0.33	0.17	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
1,2-Dichlorobenzene	ND		0.33	0.075	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2-Methylphenol	ND		0.33	0.058	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
N-Nitrosodi-n-propylamine	ND		0.33	0.084	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Hexachloroethane	ND		0.33	0.081	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Nitrobenzene	ND		0.33	0.076	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Isophorone	ND		0.33	0.093	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2-Nitrophenol	ND		0.33	0.082	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2,4-Dimethylphenol	ND		0.33	0.17	mg/Kg		07/06/21 09:48	07/09/21 12:47	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-504213/1-A

Matrix: Solid

Analysis Batch: 505293

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 504213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		0.33	0.088	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2,4-Dichlorophenol	ND		0.33	0.089	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
1,2,4-Trichlorobenzene	ND		0.33	0.083	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Naphthalene	ND		0.33	0.082	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
4-Chloroaniline	ND		0.33	0.058	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Hexachlorobutadiene	ND		0.33	0.082	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
4-Chloro-3-methylphenol	ND		0.33	0.092	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2-Methylnaphthalene	ND		0.33	0.085	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Hexachlorocyclopentadiene	ND		1.6	0.062	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2,4,6-Trichlorophenol	ND		0.33	0.084	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2,4,5-Trichlorophenol	ND		0.33	0.083	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2-Chloronaphthalene	ND		0.33	0.081	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2-Nitroaniline	ND		1.6	0.084	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Dimethyl phthalate	ND		0.33	0.087	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Acenaphthylene	ND		0.33	0.085	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
3-Nitroaniline	ND		1.6	0.17	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
3-Methylphenol & 4-Methylphenol	ND		660	330	ug/Kg		07/06/21 09:48	07/09/21 12:47	1
Acenaphthene	ND		0.33	0.083	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2,4-Dinitrophenol	ND		1.6	0.21	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
4-Nitrophenol	ND		1.6	0.28	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Dibenzofuran	ND		0.33	0.086	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2,4-Dinitrotoluene	ND		0.33	0.089	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2,6-Dinitrotoluene	ND		0.33	0.099	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Diethyl phthalate	ND		0.33	0.090	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
4-Chlorophenyl phenyl ether	ND		0.33	0.093	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Fluorene	ND		0.33	0.092	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
4-Nitroaniline	ND		1.6	0.088	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
2-Methyl-4,6-dinitrophenol	ND		1.6	0.081	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
N-Nitrosodiphenylamine	ND		0.33	0.086	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
4-Bromophenyl phenyl ether	ND		0.33	0.085	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Hexachlorobenzene	ND		0.33	0.089	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Pentachlorophenol	ND		1.6	0.051	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Phenanthrene	ND		0.33	0.094	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Anthracene	ND		0.33	0.086	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Di-n-butyl phthalate	ND		0.33	0.097	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Fluoranthene	ND		0.33	0.095	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Pyrene	ND		0.33	0.094	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Butyl benzyl phthalate	ND		0.33	0.095	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
3,3'-Dichlorobenzidine	ND		1.6	0.094	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Benzo[a]anthracene	ND		0.33	0.092	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.098	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Chrysene	ND		0.33	0.084	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Di-n-octyl phthalate	ND		0.33	0.097	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Benzo[b]fluoranthene	ND		0.33	0.095	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Benzo[a]pyrene	ND		0.33	0.094	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Benzo[k]fluoranthene	ND		0.33	0.11	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.096	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Benzoic acid	ND		1.6	0.29	mg/Kg		07/06/21 09:48	07/09/21 12:47	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-504213/1-A

Matrix: Solid

Analysis Batch: 505293

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 504213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azobenzene	ND		0.33	0.092	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Dibenz(a,h)anthracene	ND		0.33	0.10	mg/Kg		07/06/21 09:48	07/09/21 12:47	1
Pyridine	ND		660	72	ug/Kg		07/06/21 09:48	07/09/21 12:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	82		57 - 97				07/06/21 09:48	07/09/21 12:47	1
Terphenyl-d14	105		70 - 112				07/06/21 09:48	07/09/21 12:47	1
2-Fluorophenol	87		56 - 96				07/06/21 09:48	07/09/21 12:47	1
Phenol-d5	90		58 - 98				07/06/21 09:48	07/09/21 12:47	1
2,4,6-Tribromophenol	68		57 - 124				07/06/21 09:48	07/09/21 12:47	1

Lab Sample ID: LCS 320-504213/2-A

Matrix: Solid

Analysis Batch: 505293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	3.33	2.73		mg/Kg		82	61 - 101
Bis(2-chloroethyl)ether	3.33	2.60		mg/Kg		78	54 - 94
2-Chlorophenol	3.33	2.78		mg/Kg		83	58 - 98
1,3-Dichlorobenzene	3.33	2.46		mg/Kg		74	51 - 91
1,4-Dichlorobenzene	3.33	2.50		mg/Kg		75	52 - 92
Benzyl alcohol	3.33	2.83		mg/Kg		85	61 - 102
1,2-Dichlorobenzene	3.33	2.54		mg/Kg		76	53 - 93
2-Methylphenol	3.33	2.75		mg/Kg		82	61 - 101
N-Nitrosodi-n-propylamine	3.33	2.66		mg/Kg		80	58 - 101
Hexachloroethane	3.33	2.56		mg/Kg		77	54 - 94
Nitrobenzene	3.33	2.92		mg/Kg		88	58 - 98
Isophorone	3.33	2.76		mg/Kg		83	57 - 97
2-Nitrophenol	3.33	3.20		mg/Kg		96	63 - 103
2,4-Dimethylphenol	3.33	2.83		mg/Kg		85	64 - 104
Bis(2-chloroethoxy)methane	3.33	2.69		mg/Kg		81	57 - 97
2,4-Dichlorophenol	3.33	2.96		mg/Kg		89	64 - 104
1,2,4-Trichlorobenzene	3.33	2.61		mg/Kg		78	55 - 95
Naphthalene	3.33	2.59		mg/Kg		78	54 - 94
4-Chloroaniline	3.33	1.84		mg/Kg		55	44 - 91
Hexachlorobutadiene	3.33	2.66		mg/Kg		80	57 - 97
4-Chloro-3-methylphenol	3.33	3.15		mg/Kg		94	68 - 108
2-Methylnaphthalene	3.33	2.70		mg/Kg		81	57 - 97
Hexachlorocyclopentadiene	3.33	2.78		mg/Kg		83	36 - 100
2,4,6-Trichlorophenol	3.33	3.14		mg/Kg		94	70 - 111
2,4,5-Trichlorophenol	3.33	3.22		mg/Kg		97	68 - 110
2-Chloronaphthalene	3.33	2.72		mg/Kg		82	59 - 99
2-Nitroaniline	3.33	3.33		mg/Kg		100	62 - 121
Dimethyl phthalate	3.33	3.00		mg/Kg		90	64 - 106
Acenaphthylene	3.33	2.83		mg/Kg		85	58 - 98
3-Nitroaniline	3.33	2.51		mg/Kg		75	50 - 98
3-Methylphenol & 4-Methylphenol	3330	2800		ug/Kg		84	62 - 102
Acenaphthene	3.33	2.75		mg/Kg		82	61 - 101

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-504213/2-A

Matrix: Solid

Analysis Batch: 505293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrophenol	6.67	5.37	*+	mg/Kg		81	10 - 60
4-Nitrophenol	6.67	6.37		mg/Kg		96	58 - 134
Dibenzofuran	3.33	2.83		mg/Kg		85	60 - 100
2,4-Dinitrotoluene	3.33	3.52		mg/Kg		106	66 - 116
2,6-Dinitrotoluene	3.33	3.24		mg/Kg		97	68 - 110
Diethyl phthalate	3.33	3.03		mg/Kg		91	63 - 109
4-Chlorophenyl phenyl ether	3.33	2.94		mg/Kg		88	63 - 106
Fluorene	3.33	2.89		mg/Kg		87	62 - 102
4-Nitroaniline	3.33	3.25		mg/Kg		98	63 - 109
2-Methyl-4,6-dinitrophenol	6.67	6.17	*+	mg/Kg		93	10 - 82
N-Nitrosodiphenylamine	3.33	2.96		mg/Kg		89	61 - 101
4-Bromophenyl phenyl ether	3.33	3.05		mg/Kg		91	64 - 104
Hexachlorobenzene	3.33	3.07		mg/Kg		92	63 - 107
Pentachlorophenol	6.67	6.20		mg/Kg		93	53 - 101
Phenanthrene	3.33	2.96		mg/Kg		89	60 - 100
Anthracene	3.33	2.96		mg/Kg		89	61 - 101
Di-n-butyl phthalate	3.33	3.26		mg/Kg		98	65 - 105
Fluoranthene	3.33	3.00		mg/Kg		90	63 - 103
Pyrene	3.33	3.19		mg/Kg		96	65 - 105
Butyl benzyl phthalate	3.33	3.33		mg/Kg		100	69 - 113
3,3'-Dichlorobenzidine	3.33	2.18		mg/Kg		65	53 - 111
Benzo[a]anthracene	3.33	3.12		mg/Kg		94	65 - 105
Bis(2-ethylhexyl) phthalate	3.33	3.43		mg/Kg		103	66 - 117
Chrysene	3.33	3.05		mg/Kg		92	64 - 104
Di-n-octyl phthalate	3.33	3.33		mg/Kg		100	67 - 114
Benzo[b]fluoranthene	3.33	3.15		mg/Kg		95	67 - 107
Benzo[a]pyrene	3.33	3.14		mg/Kg		94	67 - 107
Benzo[k]fluoranthene	3.33	3.12		mg/Kg		93	64 - 104
Indeno[1,2,3-cd]pyrene	3.33	3.18		mg/Kg		95	67 - 108
Benzo[g,h,i]perylene	3.33	3.11		mg/Kg		93	63 - 104
Benzoic acid	6.67	6.07		mg/Kg		91	10 - 97
Azobenzene	3.33	2.87		mg/Kg		86	60 - 100
Dibenz(a,h)anthracene	3.33	3.15		mg/Kg		95	65 - 105
Pyridine	6670	3650		ug/Kg		55	25 - 80

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	101	S1+	57 - 97
Terphenyl-d14	109		70 - 112
2-Fluorophenol	92		56 - 96
Phenol-d5	93		58 - 98
2,4,6-Tribromophenol	109		57 - 124

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 320-504929/1-A

Matrix: Solid

Analysis Batch: 505321

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 504929

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.50	mg/Kg		07/08/21 06:45	07/10/21 04:54	1
Motor Oil Range Organics [C24-C36]	ND		5.0	3.8	mg/Kg		07/08/21 06:45	07/10/21 04:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	66		51 - 111				07/08/21 06:45	07/10/21 04:54	1

Lab Sample ID: LCS 320-504929/2-A

Matrix: Solid

Analysis Batch: 505321

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 504929

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
Diesel Range Organics [C10-C28]	10.0	10.3		mg/Kg		103	57 - 132	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
o-Terphenyl (Surr)	82		51 - 111					

Lab Sample ID: 320-75699-4 MS

Matrix: Solid

Analysis Batch: 505321

Client Sample ID: LESMPR-ENV-D@0.5'

Prep Type: Silica Gel Cleanup

Prep Batch: 504929

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	%Rec.
Diesel Range Organics [C10-C28]	13	F1	11.1	29.6	F1	mg/Kg	✱	146	57 - 132	
Surrogate	MS %Recovery	MS Qualifier	Limits							
o-Terphenyl (Surr)	74		51 - 111							

Lab Sample ID: 320-75699-4 MSD

Matrix: Solid

Analysis Batch: 505321

Client Sample ID: LESMPR-ENV-D@0.5'

Prep Type: Silica Gel Cleanup

Prep Batch: 504929

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics [C10-C28]	13	F1	11.2	27.6		mg/Kg	✱	128	57 - 132	7	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
o-Terphenyl (Surr)	66		51 - 111								

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 320-504191/1-A

Matrix: Solid

Analysis Batch: 505160

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 504191

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0017	0.00014	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
Dieldrin	ND		0.0017	0.00020	mg/Kg		07/06/21 09:24	07/08/21 19:47	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 320-504191/1-A

Matrix: Solid

Analysis Batch: 505160

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 504191

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.0017	0.00057	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
Endrin	ND		0.0017	0.00020	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
Endrin ketone	ND		0.0017	0.00027	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
Heptachlor	ND		0.0017	0.00015	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
Heptachlor epoxide	ND		0.0017	0.00018	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
4,4'-DDT	ND		0.0017	0.00025	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
4,4'-DDE	ND		0.0017	0.00021	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
4,4'-DDD	ND		0.0017	0.00023	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
Endosulfan I	ND		0.0017	0.00018	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
Endosulfan II	ND		0.0017	0.00018	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
alpha-BHC	ND		0.0017	0.00016	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
beta-BHC	ND		0.0017	0.00022	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
gamma-BHC (Lindane)	ND		0.0017	0.00014	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
delta-BHC	ND		0.0017	0.00035	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
Endosulfan sulfate	ND		0.0017	0.00035	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
Methoxychlor	ND		0.0034	0.00056	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
Toxaphene	ND		0.067	0.022	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
Chlordane (technical)	ND		0.020	0.0094	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
cis-Chlordane	ND		0.0017	0.00018	mg/Kg		07/06/21 09:24	07/08/21 19:47	1
trans-Chlordane	ND		0.0017	0.00060	mg/Kg		07/06/21 09:24	07/08/21 19:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		47 - 107	07/06/21 09:24	07/08/21 19:47	1
Tetrachloro-m-xylene	79		47 - 107	07/06/21 09:24	07/08/21 19:47	1
DCB Decachlorobiphenyl	78		46 - 109	07/06/21 09:24	07/08/21 19:47	1
DCB Decachlorobiphenyl	88		46 - 109	07/06/21 09:24	07/08/21 19:47	1

Lab Sample ID: LCS 320-504191/2-A

Matrix: Solid

Analysis Batch: 505160

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aldrin	0.0167	0.0162		mg/Kg		97	55 - 109
Dieldrin	0.0167	0.0165		mg/Kg		99	54 - 117
Endrin aldehyde	0.0167	0.0154		mg/Kg		92	40 - 100
Endrin	0.0167	0.0166		mg/Kg		100	58 - 115
Endrin ketone	0.0167	0.0150		mg/Kg		90	51 - 118
Heptachlor	0.0167	0.0155		mg/Kg		93	50 - 118
Heptachlor epoxide	0.0167	0.0158		mg/Kg		95	56 - 113
4,4'-DDT	0.0167	0.0179		mg/Kg		107	53 - 128
4,4'-DDE	0.0167	0.0165		mg/Kg		99	58 - 115
4,4'-DDD	0.0167	0.0169		mg/Kg		101	53 - 117
Endosulfan I	0.0167	0.0119		mg/Kg		71	42 - 118
Endosulfan II	0.0167	0.0135		mg/Kg		81	48 - 118
alpha-BHC	0.0167	0.0148		mg/Kg		89	54 - 111
beta-BHC	0.0167	0.0152		mg/Kg		91	53 - 115
gamma-BHC (Lindane)	0.0167	0.0151		mg/Kg		90	54 - 112
delta-BHC	0.0167	0.0141		mg/Kg		84	39 - 124

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 320-504191/2-A

Matrix: Solid

Analysis Batch: 505160

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan sulfate	0.0167	0.0188		mg/Kg		113	51 - 113
Methoxychlor	0.0167	0.0157		mg/Kg		94	52 - 123
cis-Chlordane	0.0167	0.0160		mg/Kg		96	54 - 113
trans-Chlordane	0.0167	0.0154		mg/Kg		92	55 - 114

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	78		47 - 107
DCB Decachlorobiphenyl	71		46 - 109

Lab Sample ID: LCS 320-504191/3-A

Matrix: Solid

Analysis Batch: 505160

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene	0.167	0.160		mg/Kg		96	43 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	82		47 - 107
DCB Decachlorobiphenyl	70		46 - 109

Lab Sample ID: LCS 320-504191/4-A

Matrix: Solid

Analysis Batch: 505160

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlordane (technical)	0.0333	0.0314		mg/Kg		94	63 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	84		47 - 107
DCB Decachlorobiphenyl	75		46 - 109

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 320-504203/1-A

Matrix: Solid

Analysis Batch: 505418

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 504203

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.033	0.0026	mg/Kg		07/06/21 09:34	07/09/21 20:41	1
PCB-1221	ND		0.033	0.0036	mg/Kg		07/06/21 09:34	07/09/21 20:41	1
PCB-1232	ND		0.033	0.0048	mg/Kg		07/06/21 09:34	07/09/21 20:41	1
PCB-1242	ND		0.033	0.0059	mg/Kg		07/06/21 09:34	07/09/21 20:41	1
PCB-1248	ND		0.033	0.0024	mg/Kg		07/06/21 09:34	07/09/21 20:41	1
PCB-1254	ND		0.033	0.0038	mg/Kg		07/06/21 09:34	07/09/21 20:41	1
PCB-1260	ND		0.033	0.0027	mg/Kg		07/06/21 09:34	07/09/21 20:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		52 - 138	07/06/21 09:34	07/09/21 20:41	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: LCS 320-504203/2-A

Matrix: Solid

Analysis Batch: 505418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.0667	0.0648		mg/Kg		97	58 - 124
PCB-1260	0.0667	0.0682		mg/Kg		102	55 - 138
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	109		52 - 138				

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-504378/1-A

Matrix: Solid

Analysis Batch: 504758

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 504378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.94	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Arsenic	ND		2.0	1.3	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Barium	ND		1.0	0.12	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Beryllium	0.0540	J	0.20	0.030	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Cadmium	ND		0.20	0.030	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Chromium	0.226	J	0.50	0.14	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Cobalt	ND		0.50	0.25	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Copper	0.368	J	1.5	0.22	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Lead	ND		1.0	0.26	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Molybdenum	ND		2.0	0.75	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Selenium	ND		2.0	1.4	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Silver	0.130	J	0.50	0.090	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Thallium	ND		2.0	0.84	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Vanadium	ND		0.50	0.19	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Zinc	0.272	J	2.0	0.19	mg/Kg		07/06/21 12:51	07/07/21 09:51	1
Nickel	ND		1.0	0.24	mg/Kg		07/06/21 12:51	07/07/21 09:51	1

Lab Sample ID: LCS 320-504378/2-A

Matrix: Solid

Analysis Batch: 504758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	44.6		mg/Kg		89	80 - 120
Arsenic	50.0	43.6		mg/Kg		87	80 - 120
Barium	50.0	46.1		mg/Kg		92	80 - 120
Beryllium	25.0	23.2		mg/Kg		93	80 - 120
Cadmium	25.0	22.6		mg/Kg		90	80 - 120
Chromium	25.0	22.6		mg/Kg		90	80 - 120
Cobalt	25.0	23.2		mg/Kg		93	80 - 120
Copper	25.0	22.0		mg/Kg		88	80 - 120
Lead	25.0	23.3		mg/Kg		93	80 - 120
Molybdenum	25.0	23.0		mg/Kg		92	80 - 120
Selenium	50.0	43.7		mg/Kg		87	80 - 120
Silver	5.05	4.56		mg/Kg		90	80 - 120
Thallium	50.0	46.4		mg/Kg		93	80 - 120
Vanadium	25.0	22.2		mg/Kg		89	80 - 120

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 320-504378/2-A

Matrix: Solid

Analysis Batch: 504758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 504378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	50.0	45.2		mg/Kg		90	80 - 120
Nickel	25.0	22.7		mg/Kg		91	80 - 120

Lab Sample ID: 320-75699-1 MS

Matrix: Solid

Analysis Batch: 504758

Client Sample ID: LESMPR-ENV-A@0.5'

Prep Type: Total/NA

Prep Batch: 504378

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	58.1	16.6	F1	mg/Kg	✱	29	80 - 120
Arsenic	5.1	F1	58.1	50.7	F1	mg/Kg	✱	78	80 - 120
Barium	170	F1	58.1	276	F1	mg/Kg	✱	176	80 - 120
Beryllium	0.47	B	29.1	26.7		mg/Kg	✱	90	80 - 120
Cadmium	0.17	J	29.1	24.7		mg/Kg	✱	84	80 - 120
Chromium	77	F1 B	29.1	99.4	F1	mg/Kg	✱	78	80 - 120
Cobalt	17		29.1	44.3		mg/Kg	✱	94	80 - 120
Copper	38	B	29.0	69.2		mg/Kg	✱	108	80 - 120
Lead	9.7		29.1	36.1		mg/Kg	✱	91	80 - 120
Molybdenum	ND	F1	29.1	22.8	F1	mg/Kg	✱	78	80 - 120
Selenium	ND		58.1	46.6		mg/Kg	✱	80	80 - 120
Silver	ND		5.87	5.02		mg/Kg	✱	85	80 - 120
Thallium	1.0	J	58.1	50.2		mg/Kg	✱	85	80 - 120
Vanadium	71		29.1	103		mg/Kg	✱	109	80 - 120
Zinc	70	B	58.1	126		mg/Kg	✱	98	80 - 120
Nickel	75	F1	29.1	119	F1	mg/Kg	✱	153	80 - 120

Lab Sample ID: 320-75699-1 MSD

Matrix: Solid

Analysis Batch: 504758

Client Sample ID: LESMPR-ENV-A@0.5'

Prep Type: Total/NA

Prep Batch: 504378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	ND	F1	57.5	16.0	F1	mg/Kg	✱	28	80 - 120	4	35
Arsenic	5.1	F1	57.5	50.6	F1	mg/Kg	✱	79	80 - 120	0	35
Barium	170	F1	57.5	253	F1	mg/Kg	✱	138	80 - 120	9	35
Beryllium	0.47	B	28.8	26.3		mg/Kg	✱	90	80 - 120	2	35
Cadmium	0.17	J	28.8	24.6		mg/Kg	✱	85	80 - 120	0	35
Chromium	77	F1 B	28.8	105		mg/Kg	✱	99	80 - 120	6	35
Cobalt	17		28.8	44.4		mg/Kg	✱	95	80 - 120	0	35
Copper	38	B	28.8	65.6		mg/Kg	✱	96	80 - 120	5	35
Lead	9.7		28.8	35.0		mg/Kg	✱	88	80 - 120	3	35
Molybdenum	ND	F1	28.8	22.6	F1	mg/Kg	✱	78	80 - 120	1	35
Selenium	ND		57.6	46.2		mg/Kg	✱	80	80 - 120	1	35
Silver	ND		5.81	4.89		mg/Kg	✱	84	80 - 120	2	35
Thallium	1.0	J	57.5	49.1		mg/Kg	✱	84	80 - 120	2	35
Vanadium	71		28.8	99.8		mg/Kg	✱	100	80 - 120	3	35
Zinc	70	B	57.5	119		mg/Kg	✱	86	80 - 120	6	35
Nickel	75	F1	28.8	107		mg/Kg	✱	112	80 - 120	11	35

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB4 320-504912/1-A ^10

Matrix: Solid

Analysis Batch: 505974

Client Sample ID: Method Blank

Prep Type: STLC Citrate

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.20	0.12	mg/L			07/12/21 14:16	10
Chromium	ND		0.10	0.0060	mg/L			07/12/21 14:16	10
Nickel	0.0132	J	0.10	0.012	mg/L			07/12/21 14:16	10

Lab Sample ID: LCS 320-504912/2-A ^10

Matrix: Solid

Analysis Batch: 505974

Client Sample ID: Lab Control Sample

Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.969		mg/L		97	75 - 125
Chromium	1.00	0.972		mg/L		97	75 - 125
Nickel	1.00	0.953		mg/L		95	75 - 125

Lab Sample ID: LCSD 320-504912/3-A

Matrix: Solid

Analysis Batch: 505974

Client Sample ID: Lab Control Sample Dup

Prep Type: STLC Citrate

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.00	0.988		mg/L		99	75 - 125	2	20
Chromium	1.00	0.965		mg/L		96	75 - 125	1	20
Nickel	1.00	0.941		mg/L		94	75 - 125	1	20

Lab Sample ID: 320-75699-1 MS

Matrix: Solid

Analysis Batch: 505974

Client Sample ID: LESMPR-ENV-A@0.5'

Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	1.02		mg/L		102	75 - 125
Chromium	0.15		1.00	1.11		mg/L		97	75 - 125
Nickel	1.3	B	1.00	2.19		mg/L		92	75 - 125

Lab Sample ID: 320-75699-1 MSD

Matrix: Solid

Analysis Batch: 505974

Client Sample ID: LESMPR-ENV-A@0.5'

Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	1.02		mg/L		102	75 - 125	0	20
Chromium	0.15		1.00	1.11		mg/L		97	75 - 125	0	20
Nickel	1.3	B	1.00	2.16		mg/L		88	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 320-505396/11-A

Matrix: Solid

Analysis Batch: 505479

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505396

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.040	0.0086	mg/Kg		07/09/21 15:30	07/09/21 16:57	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 320-505396/12-A

Matrix: Solid

Analysis Batch: 505479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.177		mg/Kg		106	86 - 114

Lab Sample ID: LCSD 320-505396/13-A

Matrix: Solid

Analysis Batch: 505479

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 505396

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.175		mg/Kg		105	86 - 114	1	17

QC Association Summary

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

GC/MS VOA

Prep Batch: 504648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	5030B	
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	5030B	
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	5030B	
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	5030B	

Analysis Batch: 505017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	8260B	504648
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	8260B	504648
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	8260B	504648
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	8260B	504648
MB 320-505017/11	Method Blank	Total/NA	Solid	8260B	
LCS 320-505017/8	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 320-505017/9	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 505019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	8260B/CA_LUFT MS	504648
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	8260B/CA_LUFT MS	504648
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	8260B/CA_LUFT MS	504648
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	8260B/CA_LUFT MS	504648
MB 320-505019/11	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 320-505019/4	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 320-505019/5	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

GC/MS Semi VOA

Prep Batch: 504213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	3550B	
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	3550B	
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	3550B	
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	3550B	
MB 320-504213/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 320-504213/2-A	Lab Control Sample	Total/NA	Solid	3550B	

Analysis Batch: 505293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	8270C	504213
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	8270C	504213
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	8270C	504213
MB 320-504213/1-A	Method Blank	Total/NA	Solid	8270C	504213
LCS 320-504213/2-A	Lab Control Sample	Total/NA	Solid	8270C	504213

Eurofins TestAmerica, Sacramento

QC Association Summary

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

GC/MS Semi VOA

Analysis Batch: 505845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	8270C	504213

GC Semi VOA

Prep Batch: 504191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	3546	
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	3546	
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	3546	
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	3546	
MB 320-504191/1-A	Method Blank	Total/NA	Solid	3546	
LCS 320-504191/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 320-504191/3-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 320-504191/4-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 504203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	3546	
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	3546	
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	3546	
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	3546	
MB 320-504203/1-A	Method Blank	Total/NA	Solid	3546	
LCS 320-504203/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 504929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Silica Gel Cleanup	Solid	3550B	
320-75699-2	LESMPR-ENV-B@0.5'	Silica Gel Cleanup	Solid	3550B	
320-75699-3	LESMPR-ENV-C@0.5'	Silica Gel Cleanup	Solid	3550B	
320-75699-4	LESMPR-ENV-D@0.5'	Silica Gel Cleanup	Solid	3550B	
MB 320-504929/1-A	Method Blank	Silica Gel Cleanup	Solid	3550B	
LCS 320-504929/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550B	
320-75699-4 MS	LESMPR-ENV-D@0.5'	Silica Gel Cleanup	Solid	3550B	
320-75699-4 MSD	LESMPR-ENV-D@0.5'	Silica Gel Cleanup	Solid	3550B	

Analysis Batch: 505160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	8081A	504191
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	8081A	504191
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	8081A	504191
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	8081A	504191
MB 320-504191/1-A	Method Blank	Total/NA	Solid	8081A	504191
LCS 320-504191/2-A	Lab Control Sample	Total/NA	Solid	8081A	504191
LCS 320-504191/3-A	Lab Control Sample	Total/NA	Solid	8081A	504191
LCS 320-504191/4-A	Lab Control Sample	Total/NA	Solid	8081A	504191

Analysis Batch: 505321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Silica Gel Cleanup	Solid	8015B	504929
320-75699-2	LESMPR-ENV-B@0.5'	Silica Gel Cleanup	Solid	8015B	504929
320-75699-3	LESMPR-ENV-C@0.5'	Silica Gel Cleanup	Solid	8015B	504929

Eurofins TestAmerica, Sacramento

QC Association Summary

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

GC Semi VOA (Continued)

Analysis Batch: 505321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-4	LESMPR-ENV-D@0.5'	Silica Gel Cleanup	Solid	8015B	504929
MB 320-504929/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	504929
LCS 320-504929/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	504929
320-75699-4 MS	LESMPR-ENV-D@0.5'	Silica Gel Cleanup	Solid	8015B	504929
320-75699-4 MSD	LESMPR-ENV-D@0.5'	Silica Gel Cleanup	Solid	8015B	504929

Analysis Batch: 505418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	8082	504203
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	8082	504203
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	8082	504203
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	8082	504203
MB 320-504203/1-A	Method Blank	Total/NA	Solid	8082	504203
LCS 320-504203/2-A	Lab Control Sample	Total/NA	Solid	8082	504203

Metals

Prep Batch: 504378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	3050B	
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	3050B	
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	3050B	
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	3050B	
MB 320-504378/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 320-504378/2-A	Lab Control Sample	Total/NA	Solid	3050B	
320-75699-1 MS	LESMPR-ENV-A@0.5'	Total/NA	Solid	3050B	
320-75699-1 MSD	LESMPR-ENV-A@0.5'	Total/NA	Solid	3050B	

Analysis Batch: 504758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	6010B	504378
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	6010B	504378
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	6010B	504378
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	6010B	504378
MB 320-504378/1-A	Method Blank	Total/NA	Solid	6010B	504378
LCS 320-504378/2-A	Lab Control Sample	Total/NA	Solid	6010B	504378
320-75699-1 MS	LESMPR-ENV-A@0.5'	Total/NA	Solid	6010B	504378
320-75699-1 MSD	LESMPR-ENV-A@0.5'	Total/NA	Solid	6010B	504378

Leach Batch: 504912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	STLC Citrate	Solid	CA WET Citrate	
320-75699-2	LESMPR-ENV-B@0.5'	STLC Citrate	Solid	CA WET Citrate	
320-75699-3	LESMPR-ENV-C@0.5'	STLC Citrate	Solid	CA WET Citrate	
320-75699-4	LESMPR-ENV-D@0.5'	STLC Citrate	Solid	CA WET Citrate	
LB4 320-504912/1-A ^10	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 320-504912/2-A ^10	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
LCSD 320-504912/3-A	Lab Control Sample Dup	STLC Citrate	Solid	CA WET Citrate	
320-75699-1 MS	LESMPR-ENV-A@0.5'	STLC Citrate	Solid	CA WET Citrate	
320-75699-1 MSD	LESMPR-ENV-A@0.5'	STLC Citrate	Solid	CA WET Citrate	

Eurofins TestAmerica, Sacramento

QC Association Summary

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Metals

Prep Batch: 505396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	7471A	
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	7471A	
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	7471A	
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	7471A	
MB 320-505396/11-A	Method Blank	Total/NA	Solid	7471A	
LCS 320-505396/12-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 320-505396/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 505479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	7471A	505396
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	7471A	505396
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	7471A	505396
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	7471A	505396
MB 320-505396/11-A	Method Blank	Total/NA	Solid	7471A	505396
LCS 320-505396/12-A	Lab Control Sample	Total/NA	Solid	7471A	505396
LCSD 320-505396/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	505396

Analysis Batch: 505974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	STLC Citrate	Solid	6010B	504912
320-75699-2	LESMPR-ENV-B@0.5'	STLC Citrate	Solid	6010B	504912
320-75699-3	LESMPR-ENV-C@0.5'	STLC Citrate	Solid	6010B	504912
320-75699-4	LESMPR-ENV-D@0.5'	STLC Citrate	Solid	6010B	504912
LB4 320-504912/1-A ^10	Method Blank	STLC Citrate	Solid	6010B	504912
LCS 320-504912/2-A ^10	Lab Control Sample	STLC Citrate	Solid	6010B	504912
LCSD 320-504912/3-A	Lab Control Sample Dup	STLC Citrate	Solid	6010B	504912
320-75699-1 MS	LESMPR-ENV-A@0.5'	STLC Citrate	Solid	6010B	504912
320-75699-1 MSD	LESMPR-ENV-A@0.5'	STLC Citrate	Solid	6010B	504912

General Chemistry

Analysis Batch: 505008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75699-1	LESMPR-ENV-A@0.5'	Total/NA	Solid	D 2216	
320-75699-2	LESMPR-ENV-B@0.5'	Total/NA	Solid	D 2216	
320-75699-3	LESMPR-ENV-C@0.5'	Total/NA	Solid	D 2216	
320-75699-4	LESMPR-ENV-D@0.5'	Total/NA	Solid	D 2216	

Lab Chronicle

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-A@0.5'

Lab Sample ID: 320-75699-1

Date Collected: 07/01/21 12:40

Matrix: Solid

Date Received: 07/02/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.06 g	500 mL	504912	07/08/21 16:05	JLV	TAL SAC
STLC Citrate	Analysis	6010B		10			505974	07/12/21 14:28	SP	TAL SAC
Total/NA	Analysis	D 2216		1			505008	07/08/21 11:53	KDB	TAL SAC

Client Sample ID: LESMPR-ENV-A@0.5'

Lab Sample ID: 320-75699-1

Date Collected: 07/01/21 12:40

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			00005.42 g	5 mL	504648	07/07/21 09:50	VLW	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	505017	07/08/21 15:24	AP1	TAL SAC
Total/NA	Prep	5030B			00005.42 g	5 mL	504648	07/07/21 09:50	VLW	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTM S		1	5 mL	5 mL	505019	07/08/21 15:24	AP1	TAL SAC
Total/NA	Prep	3550B			30.39 g	3 mL	504213	07/06/21 09:48	PT	TAL SAC
Total/NA	Analysis	8270C		20			505293	07/09/21 14:39	Y1S	TAL SAC
Silica Gel Cleanup	Prep	3550B			30.36 g	3 mL	504929	07/08/21 06:45	TL	TAL SAC
Silica Gel Cleanup	Analysis	8015B		10			505321	07/10/21 05:52	K1D	TAL SAC
Total/NA	Prep	3546			15.24 g	5 mL	504191	07/06/21 09:24	PT	TAL SAC
Total/NA	Analysis	8081A		10			505160	07/08/21 21:03	K1D	TAL SAC
Total/NA	Prep	3546			15.24 g	5 mL	504203	07/06/21 09:34	PT	TAL SAC
Total/NA	Analysis	8082		1			505418	07/09/21 21:21	K1D	TAL SAC
Total/NA	Prep	3050B			1.03 g	100 mL	504378	07/06/21 12:51	JP	TAL SAC
Total/NA	Analysis	6010B		1			504758	07/07/21 11:29	SP	TAL SAC
Total/NA	Prep	7471A			0.62 g	50 mL	505396	07/09/21 15:30	IM	TAL SAC
Total/NA	Analysis	7471A		1			505479	07/09/21 17:22	IM	TAL SAC

Client Sample ID: LESMPR-ENV-B@0.5'

Lab Sample ID: 320-75699-2

Date Collected: 07/01/21 12:58

Matrix: Solid

Date Received: 07/02/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.17 g	500 mL	504912	07/08/21 16:05	JLV	TAL SAC
STLC Citrate	Analysis	6010B		10			505974	07/12/21 14:52	SP	TAL SAC
Total/NA	Analysis	D 2216		1			505008	07/08/21 11:53	KDB	TAL SAC

Client Sample ID: LESMPR-ENV-B@0.5'

Lab Sample ID: 320-75699-2

Date Collected: 07/01/21 12:58

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			00005.51 g	5 mL	504648	07/07/21 09:50	VLW	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	505017	07/08/21 15:45	AP1	TAL SAC
Total/NA	Prep	5030B			00005.51 g	5 mL	504648	07/07/21 09:50	VLW	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTM S		1	5 mL	5 mL	505019	07/08/21 15:45	AP1	TAL SAC

Eurofins TestAmerica, Sacramento

Lab Chronicle

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-B@0.5'

Lab Sample ID: 320-75699-2

Date Collected: 07/01/21 12:58

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			30.50 g	1 mL	504213	07/06/21 09:48	PT	TAL SAC
Total/NA	Analysis	8270C		10			505845	07/12/21 15:07	KT	TAL SAC
Silica Gel Cleanup	Prep	3550B			30.07 g	3 mL	504929	07/08/21 06:45	TL	TAL SAC
Silica Gel Cleanup	Analysis	8015B		1			505321	07/10/21 06:20	K1D	TAL SAC
Total/NA	Prep	3546			15.10 g	5 mL	504191	07/06/21 09:24	PT	TAL SAC
Total/NA	Analysis	8081A		10			505160	07/08/21 21:41	K1D	TAL SAC
Total/NA	Prep	3546			15.10 g	5 mL	504203	07/06/21 09:34	PT	TAL SAC
Total/NA	Analysis	8082		1			505418	07/09/21 21:41	K1D	TAL SAC
Total/NA	Prep	3050B			1.02 g	100 mL	504378	07/06/21 12:51	JP	TAL SAC
Total/NA	Analysis	6010B		1			504758	07/07/21 11:56	SP	TAL SAC
Total/NA	Prep	7471A			0.55 g	50 mL	505396	07/09/21 15:30	IM	TAL SAC
Total/NA	Analysis	7471A		1			505479	07/09/21 17:24	IM	TAL SAC

Client Sample ID: LESMPR-ENV-C@0.5'

Lab Sample ID: 320-75699-3

Date Collected: 07/01/21 11:00

Matrix: Solid

Date Received: 07/02/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.13 g	500 mL	504912	07/08/21 16:05	JLV	TAL SAC
STLC Citrate	Analysis	6010B		10			505974	07/12/21 14:56	SP	TAL SAC
Total/NA	Analysis	D 2216		1			505008	07/08/21 11:53	KDB	TAL SAC

Client Sample ID: LESMPR-ENV-C@0.5'

Lab Sample ID: 320-75699-3

Date Collected: 07/01/21 11:00

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			00005.06 g	5 mL	504648	07/07/21 09:50	VLW	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	505017	07/08/21 21:35	AP1	TAL SAC
Total/NA	Prep	5030B			00005.06 g	5 mL	504648	07/07/21 09:50	VLW	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTM S		1	5 mL	5 mL	505019	07/08/21 21:35	AP1	TAL SAC
Total/NA	Prep	3550B			30.62 g	3 mL	504213	07/06/21 09:48	PT	TAL SAC
Total/NA	Analysis	8270C		20			505293	07/09/21 15:34	Y1S	TAL SAC
Silica Gel Cleanup	Prep	3550B			30.01 g	3 mL	504929	07/08/21 06:45	TL	TAL SAC
Silica Gel Cleanup	Analysis	8015B		10			505321	07/10/21 06:49	K1D	TAL SAC
Total/NA	Prep	3546			15.08 g	5 mL	504191	07/06/21 09:24	PT	TAL SAC
Total/NA	Analysis	8081A		10			505160	07/08/21 21:59	K1D	TAL SAC
Total/NA	Prep	3546			15.08 g	5 mL	504203	07/06/21 09:34	PT	TAL SAC
Total/NA	Analysis	8082		1			505418	07/09/21 22:01	K1D	TAL SAC
Total/NA	Prep	3050B			1.00 g	100 mL	504378	07/06/21 12:51	JP	TAL SAC
Total/NA	Analysis	6010B		1			504758	07/07/21 12:00	SP	TAL SAC
Total/NA	Prep	7471A			0.63 g	50 mL	505396	07/09/21 15:30	IM	TAL SAC
Total/NA	Analysis	7471A		1			505479	07/09/21 17:26	IM	TAL SAC

Eurofins TestAmerica, Sacramento

Lab Chronicle

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Client Sample ID: LESMPR-ENV-D@0.5'

Lab Sample ID: 320-75699-4

Date Collected: 07/01/21 13:30

Matrix: Solid

Date Received: 07/02/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.15 g	500 mL	504912	07/08/21 16:05	JLV	TAL SAC
STLC Citrate	Analysis	6010B		10			505974	07/12/21 15:00	SP	TAL SAC
Total/NA	Analysis	D 2216		1			505008	07/08/21 11:53	KDB	TAL SAC

Client Sample ID: LESMPR-ENV-D@0.5'

Lab Sample ID: 320-75699-4

Date Collected: 07/01/21 13:30

Matrix: Solid

Date Received: 07/02/21 10:10

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			00005.60 g	5 mL	504648	07/07/21 09:50	VLW	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	505017	07/08/21 21:57	AP1	TAL SAC
Total/NA	Prep	5030B			00005.60 g	5 mL	504648	07/07/21 09:50	VLW	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTM S		1	5 mL	5 mL	505019	07/08/21 21:57	AP1	TAL SAC
Total/NA	Prep	3550B			30.35 g	1 mL	504213	07/06/21 09:48	PT	TAL SAC
Total/NA	Analysis	8270C		20			505293	07/09/21 16:02	Y1S	TAL SAC
Silica Gel Cleanup	Prep	3550B			30.18 g	3 mL	504929	07/08/21 06:45	TL	TAL SAC
Silica Gel Cleanup	Analysis	8015B		10			505321	07/10/21 07:17	K1D	TAL SAC
Total/NA	Prep	3546			15.42 g	5 mL	504191	07/06/21 09:24	PT	TAL SAC
Total/NA	Analysis	8081A		10			505160	07/08/21 22:18	K1D	TAL SAC
Total/NA	Prep	3546			15.42 g	5 mL	504203	07/06/21 09:34	PT	TAL SAC
Total/NA	Analysis	8082		1			505418	07/09/21 22:21	K1D	TAL SAC
Total/NA	Prep	3050B			1.04 g	100 mL	504378	07/06/21 12:51	JP	TAL SAC
Total/NA	Analysis	6010B		1			504758	07/07/21 12:04	SP	TAL SAC
Total/NA	Prep	7471A			0.62 g	50 mL	505396	07/09/21 15:30	IM	TAL SAC
Total/NA	Analysis	7471A		1			505479	07/09/21 17:28	IM	TAL SAC

Laboratory References:

EMLab P&K = EMLab P&K - South San Francisco, 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080, TEL (866)888-6653

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3550B	Solid	Motor Oil Range Organics [C24-C36]
D 2216		Solid	Percent Moisture

Method Summary

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAC
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL SAC
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAC
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SAC
8081A	Organochlorine Pesticides (GC)	SW846	TAL SAC
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL SAC
6010B	Metals (ICP)	SW846	TAL SAC
7471A	Mercury (CVAA)	SW846	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
Subcontract	AsbestosT CARB 435A	None	EMLab P&K
3050B	Preparation, Metals	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL SAC
3550B	Ultrasonic Extraction	SW846	TAL SAC
5030B	Purge and Trap	SW846	TAL SAC
7471A	Preparation, Mercury	SW846	TAL SAC
CA WET Citrate	California - Waste Extraction Test with Citrate Leach	CA-WET	TAL SAC

Protocol References:

ASTM = ASTM International

CA-WET = California Waste Extraction Test, from Title 22

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab P&K = EMLab P&K - South San Francisco, 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080, TEL (866)888-6653

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Cleary Consultants, Inc
Project/Site: Horral/Lead Elementary School-MRP Building

Job ID: 320-75699-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-75699-1	LESMPR-ENV-A@0.5'	Solid	07/01/21 12:40	07/02/21 10:10
320-75699-2	LESMPR-ENV-B@0.5'	Solid	07/01/21 12:58	07/02/21 10:10
320-75699-3	LESMPR-ENV-C@0.5'	Solid	07/01/21 11:00	07/02/21 10:10
320-75699-4	LESMPR-ENV-D@0.5'	Solid	07/01/21 13:30	07/02/21 10:10



EMLab P&K

Report for:

Afsaneh Salimpour
TestAmerica-West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Regarding: Project: 320-75699-1; Horral/Lead Elementary School-MRP Building
EML ID: 2677376

Approved by:

Dates of Analysis:
Asbestos-CARB 435 (400 pt ct): 07-09-2021

Technical Manager
Murali Putty

Service SOPs: Asbestos-CARB 435 (400 pt ct) (EM-AS-S-1265)
NVLAP Lab Code 200728-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16**Eurofins EMLab P&K**6000 Shoreline Ct, Ste 205, So. San Francisco, CA 94080
(866) 888-6653 Fax (623) 780-7695 www.emlab.comClient: TestAmerica-West Sacramento
C/O: Afsaneh Salimpour
Re: 320-75699-1; Horral/Lead Elementary School-
MRP Building

Date of Sampling: 07-01-2021

Date of Receipt: 07-06-2021

Date of Report: 07-09-2021

ASBESTOS POINT COUNT REPORT: CARB METHOD 435

Location:	LESMPR-ENV-A@0.5' (320-75699-1)		
Total Points Counted:	400		
Lab ID-Version‡:	12800249-1		
Sample Layers	Asbestos Type	Asbestos Points Counted	Asbestos Concentration (%)
Brown Soil	-	-	ND
Layer Totals:	-	-	-

Comments:No asbestos was detected and no points were counted.

Location:	LESMPR-ENV-B@0.5' (320-75699-2)		
Total Points Counted:	400		
Lab ID-Version‡:	12800250-1		
Sample Layers	Asbestos Type	Asbestos Points Counted	Asbestos Concentration (%)
Brown Soil	-	-	ND
Layer Totals:	-	-	-

Comments:No asbestos was detected and no points were counted.

Location:	LESMPR-ENV-C@0.5' (320-75699-3)		
Total Points Counted:	400		
Lab ID-Version‡:	12800251-1		
Sample Layers	Asbestos Type	Asbestos Points Counted	Asbestos Concentration (%)
Brown Soil	-	-	ND
Layer Totals:	-	-	-

Comments:No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

Eurofins EMLab P&K

6000 Shoreline Ct, Ste 205, So. San Francisco, CA 94080
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-West Sacramento
C/O: Afsaneh Salimpour
Re: 320-75699-1; Horral/Lead Elementary School-
MRP Building

Date of Sampling: 07-01-2021
Date of Receipt: 07-06-2021
Date of Report: 07-09-2021

ASBESTOS POINT COUNT REPORT: CARB METHOD 435

Location:	LESMR-ENV-D@0.5' (320-75699-4)		
Total Points Counted:	400		
Lab ID-Version‡:	12800252-1		
Sample Layers	Asbestos Type	Asbestos Points Counted	Asbestos Concentration (%)
Brown Soil	-	-	ND
Layer Totals:		-	-

Comments:No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact: Salimpour, Afsaneh F Shipping/Receiving: Afsaneh Salimpour@Eurofinset.com Company: TestAmerica Laboratories, Inc. Address: 880 Riverside Parkway, West Sacramento, CA 95605 Phone: 916-373-5600(Tel) 916-372-1059(Fax) Email:				Sampler: Lab PM Phone: E-Mail:		Carrier Tracking No(s): 320-230834.1 State of Origin: California Page 1 of 1	
Due Date Requested: 7/9/2021 TAT Requested (days):				Accreditations Required (See note): State - California, State Program - California		Job #: 320-75699-1 Preservation Codes:	
PO #: WO #: Project #: 32016777 SSOW#:				Analysis Requested		Preservation Codes:	
Sample Identification - Client ID (Lab ID)				Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Date				Sample Time		Sample Type (C=comp, G=grab)	
Matrix (Wet, Solid, Overhead)				Preservation Code:		Total Number of Containers	
LESMPR-ENV-A@0.5' (320-75699-1)				7/1/21		12:40 Pacific	
LESMPR-ENV-B@0.5' (320-75699-2)				7/1/21		12:58 Pacific	
LESMPR-ENV-C@0.5' (320-75699-3)				7/1/21		11:00 Pacific	
LESMPR-ENV-D@0.5' (320-75699-4)				7/1/21		13:30 Pacific	
Special Instructions/Note:				Moisture/ (MOD) Local Method		8015B_DRO/3550B_SGC (MOD) DRO/MRO	
8082/3546 PCBs, Standard List				8270C/3550B (MOD) Local Method		8081A/3546	
8260B/CA_LUFTMS/5030B_SolidNAC GRC C4-C12				8260B/5030B_SolidNAC (MOD) VOCs + GRC		6010B/CA_WET_CIT_180 (MOD) As, CR	
6010B/CA_WET_CIT_180 (MOD) As, CR				6010B/3050B CAM 17 List, minus Mercury		7471A/7471A_Prep Mercury Only	
7471A/7471A_Prep Mercury Only				6010B/CA_WET_CIT_180 (MOD) As, CR		8260B/5030B_SolidNAC (MOD) VOCs + GRC	
8260B/5030B_SolidNAC (MOD) VOCs + GRC				8260B/CA_LUFTMS/5030B_SolidNAC GRC C4-C12		8081A/3546	
8082/3546 PCBs, Standard List				8270C/3550B (MOD) Local Method		8015B_DRO/3550B_SGC (MOD) DRO/MRO	
Moisture/ (MOD) Local Method				8015B_DRO/3550B_SGC (MOD) DRO/MRO		8081A/3546	
8082/3546 PCBs, Standard List				8270C/3550B (MOD) Local Method		8015B_DRO/3550B_SGC (MOD) DRO/MRO	
8260B/5030B_SolidNAC (MOD) VOCs + GRC				8260B/CA_LUFTMS/5030B_SolidNAC GRC C4-C12		8081A/3546	
6010B/CA_WET_CIT_180 (MOD) As, CR				6010B/3050B CAM 17 List, minus Mercury		7471A/7471A_Prep Mercury Only	
7471A/7471A_Prep Mercury Only				6010B/CA_WET_CIT_180 (MOD) As, CR		8260B/5030B_SolidNAC (MOD) VOCs + GRC	
8260B/5030B_SolidNAC (MOD) VOCs + GRC				8260B/CA_LUFTMS/5030B_SolidNAC GRC C4-C12		8081A/3546	
8082/3546 PCBs, Standard List				8270C/3550B (MOD) Local Method		8015B_DRO/3550B_SGC (MOD) DRO/MRO	
Moisture/ (MOD) Local Method				8015B_DRO/3550B_SGC (MOD) DRO/MRO		8081A/3546	
8082/3546 PCBs, Standard List				8270C/3550B (MOD) Local Method		8015B_DRO/3550B_SGC (MOD) DRO/MRO	
8260B/5030B_SolidNAC (MOD) VOCs + GRC				8260B/CA_LUFTMS/5030B_SolidNAC GRC C4-C12		8081A/3546	
6010B/CA_WET_CIT_180 (MOD) As, CR				6010B/3050B CAM 17 List, minus Mercury		7471A/7471A_Prep Mercury Only	
7471A/7471A_Prep Mercury Only				6010B/CA_WET_CIT_180 (MOD) As, CR		8260B/5030B_SolidNAC (MOD) VOCs + GRC	
8260B/5030B_SolidNAC (MOD) VOCs + GRC				8260B/CA_LUFTMS/5030B_SolidNAC GRC C4-C12		8081A/3546	
8082/3546 PCBs, Standard List				8270C/3550B (MOD) Local Method		8015B_DRO/3550B_SGC (MOD) DRO/MRO	
Moisture/ (MOD) Local Method				8015B_DRO/3550B_SGC (MOD) DRO/MRO		8081A/3546	
8082/3546 PCBs, Standard List				8270C/3550B (MOD) Local Method		8015B_DRO/3550B_SGC (MOD) DRO/MRO	
8260B/5030B_SolidNAC (MOD) VOCs + GRC				8260B/CA_LUFTMS/5030B_SolidNAC GRC C4-C12		8081A/3546	
6010B/CA_WET_CIT_180 (MOD) As, CR				6010B/3050B CAM 17 List, minus Mercury		7471A/7471A_Prep Mercury Only	
7471A/7471A_Prep Mercury Only				6010B/CA_WET_CIT_180 (MOD) As, CR		8260B/5030B_SolidNAC (MOD) VOCs + GRC	
8260B/5030B_SolidNAC (MOD) VOCs + GRC				8260B/CA_LUFTMS/5030B_SolidNAC GRC C4-C12		8081A/3546	
8082/3546 PCBs, Standard List				8270C/3550B (MOD) Local Method		8015B_DRO/3550B_SGC (MOD) DRO/MRO	
Moisture/ (MOD) Local Method				8015B_DRO/3550B_SGC (MOD) DRO/MRO		8081A/3546	
8082/3546 PCBs, Standard List				8270C/3550B (MOD) Local Method		8015B_DRO/3550B_SGC (MOD) DRO/MRO	
8260B/5030B_SolidNAC (MOD)							

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Cleary Consultants, Inc

Job Number: 320-75699-1

Login Number: 75699

List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Cleary Consultants, Inc

Job Number: 320-75699-1

Login Number: 75699

List Source: Eurofins TestAmerica, Sacramento

List Number: 2

Creator: Guzman, Juan

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Cleary Consultants, Inc

Job Number: 320-75699-1

Login Number: 75699

List Number: 3

Creator: Cruise, Noel

List Source: Eurofins Calscience LLC

List Creation: 07/05/21 09:23 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	