

City of Alameda

REQUEST FOR PROPOSAL



The Public Works Department is seeking proposals for Vegetation Management and Water Quality Services for Alameda West Lagoons

Issued: March 20, 2025

Submittal Deadline:

2:00 PM on April 17, 2025

City of Alameda
Public Works Department
950 West Mall Square, Room 110
Alameda, CA 94501

I. NOTICE INVITING PROPOSALS

The City of Alameda (City) Public Works Department invites proposals for a five-year term contract for Vegetation Management and Water Quality Services for South Shore Lagoons. Proposers shall read the information contained in this Request for Proposal (RFP) to understand how to submit the proposal, what documents must accompany the proposal and what legal obligations apply when the Proposer submits a proposal. Any Proposer that wishes to be considered for this work must submit the information requested in this RFP and if invited, participate in an evaluation interview panel.

II. BACKGROUND

The Southshore lagoon system consists of five individual lagoons linked together by approximately 3,070 linear feet of 60-inch reinforced concrete pipe. The lagoon system was constructed in the late 1950's and early 1960's, when the existing San Francisco Bay shoreline was filled to create additional single-family residential units, some multi-family structures, and a few commercial properties. The lagoons are approximately two miles in length, have a total surface area of approximately 50 acres, and vary in depth from one foot at the perimeter walls to approximately eight feet in the center. **Exhibit A** contains an overview map of the lagoon system.

Lagoon 1 extends from Westline Drive (near Shoreline Drive) to Grand Street; Lagoon 2 extends from Grand Street to Willow Street; Lagoon 3 extends from Willow Street to Park Street; Lagoon 4 extends from Park Street to Broadway; and Lagoon 5 extends from Broadway to Bayview Drive (near Court Street).

The lagoons are supplied with salt water from the San Francisco Bay by a 3,000-gallon per minute pump housed in a station located near the Westline Drive/Shoreline Drive curve. The pump only operates during high tides because of the shallow location of the intake structure. Once the water is pumped into the westerly-most lagoon, it flows through the lagoons by gravity and returns to the Bay at the easterly-most lagoon. The water level is controlled by two weir structures with sluice gates, the Willow weir located at the end of Lagoon 2 and the Bayview weir located at the end of Lagoon 5 at the outlet structure. These structures allow the water level to be manually raised or lowered to the required height. Water is maintained at a constant level except during the winter rainy season and for annual maintenance.

The lagoons serve as a private water feature for the enjoyment of residents living along the lagoons and as a channel for storm water during periods of rain. The City and the Alameda West Lagoon Homeowner's Association (AWLHOA) maintains the lagoons for purposes of storm drainage, water quality and aesthetics. The AWLHOA is the record title owner of the lagoon system, and the City has a perpetual easement over it for maintenance purposes. As such, the City consults with the AWLHOA on the maintenance and monitoring of the lagoon system.

Migratory waterfowl also frequent the lagoons as well as resident birds. Egrets, herons, and various ducks are the primary migratory waterfowl. Resident birds consist mostly of mallards, Canadian geese, and coots.

The City is an enrollee under the Statewide General National Pollutant Discharge Elimination System (NPDES) Permit for Residual Aquatic Pesticide Discharges to Waters of the United States from Algae and Aquatic Weed Control Applications, Water Quality Order 2013-0002-DWQ ("NPDES Permit") and has an approved Aquatic Pesticide Application Plan (APAP). A copy of the APA is included as **Exhibit B**.

III. SCOPE OF SERVICES

The purpose of this contract is to provide vegetation management, debris management, water quality sampling and NPDES permit compliance services for the South Shore Lagoons. The qualified firm must be experienced in the management of nuisance aquatic plant growth using an array of control methods to maintain the lagoon's aesthetic and recreational amenities. The firm's management approach must be consistent with applicable local, state, and federal regulatory requirements. The Contractor is expected to examine carefully the lagoon sites before preparing a proposal.

IV. PROPOSAL REQUIREMENTS

Proposals shall include the following elements:

1. The Proposer shall prepare a statement of qualifications which identifies:
 - a) The size, stability and capacity of Proposer's organization, including, at a minimum, an identification of total number of years in operation, number of employees in the office location which is intended to provide the services described in the Scope of Services, and a description of Proposers' shop and storage facilities intended to support the City.
 - b) An identification of the Proposer's experience performing services for projects of a similar size, scope, and complexity as the services required by this RFP, including an identification of the number of years' Proposer has been performing similar services; and the most recent projects for which the Proposer has performed similar services. The list of recent projects shall include the name, contact person, address, and phone number of each party for whom the service was provided, as well as a description of the service performed, the dollar amount of the contract, and the date of performance.
 - c) A list of the Proposer's principals, employees, agents, and sub-service providers which the Proposer intends to assign to this project. This list shall include a summary of the qualifications (including education, training, certifications licenses, and experience) of each individual; the approximate number of hours each will devote to the contract; and the type of work to be performed by each individual.
 - d) The following information on all state or federal litigation in which Proposer or any proposed subcontractor was a named party, or worked under contract with a party named in a lawsuit:
 1. Case name and case number
 2. Case location (including county and state for state litigation, or district for federal litigation)
 3. Year case was filed
 4. Whether case is pending or resolved, and outcome (if any)
 5. Description of the case (i.e., type of case, whether case is typical, what claims were alleged against Bidder or subcontractor)

If Proposer is and was not a named party in any litigation, state that in the Statement of Qualifications.

2. **Statement of Exceptions, if any, to Standard Service Provider Agreement.**

The selected firm will be required to execute the Service Provide Agreement included in template form as **Exhibit C**. All proposers are directed particularly to review all Indemnification, Hold Harmless and Insurance requirements set forth in this Agreement. If Proposer wishes to take exception to any of the terms and conditions contained in the Agreement for Service, these should be identified specifically; otherwise include a statement of no exception, labeled as Exhibit B in the submitted proposal. Failure to identify contractual issues of dispute can later be the basis for the City disqualifying a proposer. Any exceptions to terms, conditions, or other requirements must be clearly stated.

3. **Signed City of Alameda Integrated Pest Management Policy (Exhibit D)**

4. **Proposed Work Plan**

Based on experience and expertise, the Proposer shall craft a Work Plan tailored to the Southshore lagoon needs. The work plan shall include, but need not be limited to, the elements listed below. As detailed below, the Work Plan will include a Cost Schedule of service and control Options, associated unit pricing and an estimated itemized monthly work plan for each month within a 12 month period (paragraph 7 below). The Cost Schedule may include options not itemized in any monthly work plan to allow flexibility in adding or replacing services in any given month, based on actual conditions. The final Cost Schedule and monthly work plans included in the Agreement will be negotiated by the City and Proposer deemed most responsive in demonstrating their expertise and capacity to deliver the desired professional services.

A. **Inspection and Water Quality Sampling.** Inspect the lagoons to identify and prepare for nuisance plant growth and evaluate ambient water quality indicators.

- Discuss how the City will have an accurate assessment of lagoon conditions with respect to the emergence of aquatic plant nuisance conditions. Identify tools and techniques that will be utilized.
- Water quality samples shall be collected from a depth of 1 foot below the water's surface. Samples to be analyzed in a certified laboratory must be collected and stored in suitable containers provided by the laboratory. Routine monthly water quality sampling, not associated with aquatic pesticide application, shall include the following indicators at 5 distinct locations:
 - Temperature
 - Dissolved Oxygen
 - Salinity
 - pH
 - Turbidity
 - Fecal Coliform

Samples that exceed water quality objectives designated for the San Francisco Bay must be reported to the City immediately. Follow up sampling will be required to demonstrate exceedance is resolved. All results to be included in the monthly report, described below.

- Provide example recordkeeping form to be used to document information acquired during inspection activities. The form shall, at minimum, note if any finding will be addressed as part of the already approved monthly work plan ("routine maintenance")

and/or an approved chemical treatment. For inspection findings not addressed by routine maintenance and/or an approved chemical treatment, Proposer shall recommend a solution for the City and AWLHOA to discuss and authorize, as decided.

B. Debris and Trash Removal. Routine debris and trash removal from the lagoons shall be performed weekly on Fridays, at a minimum. The contractor is responsible for providing all necessary equipment to collect and properly haul and dispose of material collected (organic and inorganic). For purposes of preparing this Work Plan, records of past volume of debris removed is available upon request.

- Provide an example Debris and Trash Removal field form that will be completed for each lagoon on each day of service. The City shall be notified at the completion of service for each lagoon to sign off on the form, approving the work to be satisfactory. The form shall, at minimum, include description of activities performed and number of 32-gallon cans of debris removed from each lagoon.
- Before and after remediation photographs shall be provided to the City at the time the services are performed. In particular, photographs of the following areas must be provided:
 - i. Court Street (east end)
 - ii. Mini Park (at south end of Oak Street)
- Special attention for debris and trash removal shall be given to the following areas:
 - i. Court Street (east end)
 - ii. Grand Street Bridge, N/E corner
 - iii. Mini Park (at south end of Oak Street)
 - iv. Burbank Street and Portola Avenue
 - v. Inside and outside the Willow Street Weir
 - vi. Willow Street (east)
 - vii. Broadway

C. Mechanical Control Methods. The Work Plan shall identify need and recommend schedule(s), for applicable mechanical control methods, such as skimming and/or harvesting. Contractor is responsible for providing skilled staff and all necessary equipment and materials required to perform mechanical control methods safely and pursuant to local, state and federal laws. Only include methods suitable to the South Shore Lagoons. The proposed Work Plan shall include services that:

- Remove accumulated floating matter, as needed, to prevent or mitigate nuisance conditions, particularly at private dock areas, and along shorelines.
- Collect and remove cut and floating material.
- Discuss indicators (thresholds) that will be used to trigger mechanical cutting and removal operations.
- Describe the handling and disposal of harvested plant material. Please note that City facilities are not available for material disposal.

D. Equipment. The Work Plan shall describe the equipment that will be available under the contract for the term of the Agreement. Storage of large equipment on site is not an option. As such, equipment and other water vessels will need to be trailered in and out on day of use. Access and launching facilities for each of the 5 lagoons must be investigated before proposing,

as some lagoons will require a crane and conveyer belt to place equipment in lagoon and remove.

- For all aquatic vessels and shore equipment that may be used, provide photos, storage location, CF numbers, color, weight, length, horsepower, capacity and craft capabilities.
- List equipment that will be used to perform plant material cutting and handling, chemical applications, and other direct management operations.
- Indicate the maximum response time for mobilization of harvesting, transport, spray and shoreline support equipment.
- Describe the contingency/backup plan to ensure continual service, particularly during the high plant growth period, with assurance that if equipment goes out of service, the equipment shall be replaced within 24 hours.
- All equipment must carry the licenses and/or identification required by law.

E. **Chemical Treatment.** The use of aquatic pesticides must be performed in strict compliance with Water Quality Order No. 2013-0002-DWQ, Statewide General National Pollutant Discharge Elimination System Permit for Residual Pesticide Discharges to Waters of the United States from Algae and Aquatic Weed Control Applications, General Permit No. CAG990005 ("General Permit"), WDID NO. 2 01AP00013, the City's Aquatic Pesticide Application Plan (APAP) and the City of Alameda Integrated Pest Management Policy, **Exhibit C**. The APAP specifies the aquatic herbicides and algaecides that may be used in the aquatic plant and algae control program, the criteria for when these are used, the best management practices that are required during application, the monitoring and reporting requirements, and sampling methodology. The Contractor is required to use the forms included in the APAP to track information required for each treatment event.

- Discuss indicators (thresholds) that will be used to trigger a chemical treatment.
- Discuss process for communicating and coordinating the aquatic pesticide treatment schedule with the City prior to any chemical treatments to allow for public notice, water sampling that may be required by a NPDES permit, or other purpose(s).
- Describe process for notifying City and applicable regulatory bodies of any non-compliance with the NPDES Permit or APAP within the timeframes specified in the NPDES permit.
- Describe your firm's pesticide application strategy that will be used to abate or minimize the use of copper-based formulations.
- Contractor is responsible for the preparation of the Annual Report, as required in the Monitoring and Reporting Program of the General Permit. A draft must be prepared for City review and signature 30 days in advance of its due date to the Water Board.

F. **Communication and Reporting.**

- Attendance by a contractor representative is required at the monthly AWLHOA Board meetings, hosted in Alameda's City Hall West, to provide summary of the past month's work and answer questions.
- Monthly reports are due no later than the second Tuesday of each month outlining the previous month's activities, amount of debris removal, water quality sampling results and current budget status. The report shall include:
 - General observation and description of plant growth and debris material removed for each week.
 - Detailed summary of work performed and locations for each week

- Tentative action plan for the upcoming month, including recommendations to improve the lagoon system operation and maintenance, if necessary
- Summary of types, product names, and amounts of aquatic pesticides used for each treatment, using Department of Pesticide Regulation (DPR) monthly pesticide use report form or equivalent
- Current budget status
- Preparation and submittal of the annual APAP reports to the Water Board

- G. Cost Schedule and Cost Projection.** Prepare a cost schedule for all possible work unit pricing. Labor is subject to prevailing wage. Define each unit of service and list any exclusions for each work type. Be sure to include a unit cost for each control option or activity presented in the Work Plan. Unit costs shall include all incidental costs including travel, equipment, documentation, etc.... At minimum, the Cost Schedule shall include costs for the following:
- Professional consulting (includes research, reports, and meetings), per hour
 - Inspections & monitoring of aquatic plant growth and visual water quality indicators, per hour
 - Mechanical control method(s), unit per day
 - Aquatic pesticide application(s), unit per acre
 - Debris and Trash removal, unit per hour (include equipment and materials handling and disposal)
 - Water quality sampling (sample acquisition and analytics) for all constituents in routine sampling and sampling required per APAP, per sample

V. PROPOSAL FORMAT AND SUBMITTAL

Proposers shall submit a Portable Document File (PDF) proposal via email to esmith@alamedaca.gov. The subject line of the email shall say “**City of Alameda** – Vegetation and Debris Management, Water Quality Services for Alameda West Lagoons”.

Proposals must be received by 2:00 PM on April 17, 2025. Late proposals will not be considered. The City assumes no responsibility for delays caused by delivery service. Postmarking by the due date will not substitute for actual receipt. Any Proposal received prior to April 17, 2025 at 2 PM may be modified by written addendum or withdrawn by written request from the Proposer to the City up to the official time when all proposals are due. Section IV contains a complete list of proposal requirements.

VI. PRE- PROPOSAL QUESTIONS

All questions regarding the proposal documents and proposal should be directed to:

Erin Smith, Public Works Director
City of Alameda Department of Public Works
950 West Mall Square, Room 110
Alameda, CA 94501
esmith@alamedaca.gov

Pre-proposal questions will be accepted until April 10, 2025.

VII. EVALUATION CRITERIA

After reviewing the submitted proposals, the City may invite some or all proposers to present their qualifications and proposed approach or may decide to select one proposer without conducting interviews and enter into contract negotiations directly. Proposer interviews, if necessary, are anticipated to be conducted according to the schedule provided in Section VIII. Details of the interview process will be provided along with the invitation to present.

The final selection will be based upon the following criteria:

1. Ability of the Proposer to Carry Out and Manage the Proposed Project (20%)

An assessment of the statement of qualifications, including past experience of the organization in general. Qualities and indicators that will receive consideration include the number and types of projects the organization or its employees have completed; the variety of projects completed and a demonstration of the organization's ability to undertake this project; and the demonstrated ability to work with governmental bodies and a full understanding of applicable laws or regulations that relate to the project.

2. Qualifications (40%)

The qualifications (including education, training, licenses, experience, and past performance) of the Proposer and its agents, employees, and sub-service providers. The City may consider Proposer's timely and accurate performance on contracts of a similar nature.

3. Willingness to Comply with the Proposed Agreement Terms (10%)

A sample agreement is attached. Proposals will be rated based on the exceptions taken to the proposed contract.

4. Cost of Proposal (30%)

Cost, while not determinative, will be considered in the selection process.

5. Local Business (+5%)

If the Proposer's company is physically located within the City limits, they will receive an additional five points.

VIII. CONDITIONS OF REQUEST FOR PROPOSAL

- 1. Nondiscrimination:** Applicants for this RFP shall not discriminate against any interested individual, firm or applicant on the grounds of race, religious creed, color, national origin, ancestry, handicap, disability, marital status, pregnancy, sex, age, or sexual orientation.
- 2. Permits, Licenses, and Insurance:** The successful applicant for this RFP shall, at its sole expense, obtain and maintain during the term of any agreement executed pursuant to this RFP all appropriate permits, certificates, licenses, and insurance including, but not

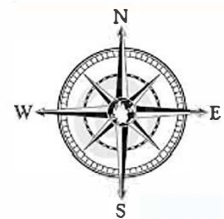
limited to, a City of Alameda Business License which may be required in connection with the performance of services hereunder.

3. **Signatures and Declarations:** Each proposal responding to this RFP must be signed on behalf of the submitting entity by an officer authorized to bind the entity to its proposal.
4. **City's Right to Waive:** The City reserves the right, in its sole discretion, to waive any immaterial irregularities in a proposal responding to this RFP or in the submission of a proposal.
5. **City's Right to Modify the RFP:** The City reserves the right, in its sole discretion, to modify this RFP should the City deem that it is in its best interests to do so. Any changes to the RFP requirements will be made by written addendum posted on the City's website. The failure of an applicant to read any addenda shall have no effect on the validity of such modification.
6. **City's Right to Suspend or Cancel the RFP:** The City reserves the right, in its sole discretion, to suspend or cancel this RFP in part or in its entirety should the City deem that it is in the City's best interests to do so.
7. **City's Right to Reject Any Proposal:** The City reserves the right, in its sole discretion, to reject any proposal responding to this RFP that the City determines does not satisfy the conditions set forth in this RFP, or contains false, misleading, or materially incomplete information. The City reserves the right, in its sole discretion, to reject all applicants and not to award to any applicant should the City deem that it is in its best interests to do so.
8. **City's Right to Extend RFP Deadlines:** The City reserves the right, in its sole discretion, to extend any of the deadlines listed in this RFP by written addenda should the City deem that it is in its best interests to do so.
9. **Cost of Proposals:** All costs incurred during proposal preparation or in any way associated with an applicant's preparations, submission, presentation or oral interview (if any) shall be the sole responsibility of Applicant.
10. **Liability for RFP Errors:** Applicants are solely responsible for all errors and omissions contained in their responses to the RFP.
11. **Proposals Property of City:** Upon receipt, each proposal responding to this RFP that an applicant submits to the City becomes the sole property of the City and will not be returned to the applicant.
12. **Oral and Written Explanations:** The City shall not be bound by oral explanations or instructions given at any time during the process or after the award. Oral explanations given during the review process and after award become binding only when confirmed in

writing by an authorized City official. Written responses to question(s) asked by one proposer will be provided to all applicants to this RFP.

13. **Public Record:** All proposals submitted to the City are subject to the California Public Records Act.

EXHIBIT A. Map of Alameda West Lagoon System



City of Alameda Web Map

300m
1000ft
122° 15' 18.00" 37° 46' 13.11" Scale 1:12,456



The City of Alameda does not guarantee the information contained in this map to be an accurate representation of actual existing conditions.

EXHIBIT B. City of Alameda Aquatic Pesticide Application Plan

AQUATIC PESTICIDE APPLICATION PLAN (APAP - AMENDED) Alameda Lagoons



**Prepared By:
CLEAN LAKES, INC.
2150 Franklin Canyon Road
Martinez, California 94553
www.cleanlake.com**

**CITY OF ALAMEDA
Public Works Department
950 W. Mall Square, Room 110
Alameda, CA 92501**

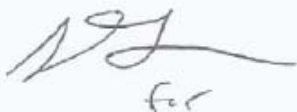
April 2020

Purpose: To meet the requirements and ensure compliance with Water Quality Order No. 2013-0002-DWQ, Statewide General National Pollutant Discharge Elimination System Permit for Residual Aquatic Pesticide Discharges to Waters of the United States from Algae and Aquatic Weed Control Applications, General Permit No. CAG990005, adopted by the State Water Resource Control Board on March 5, 2013

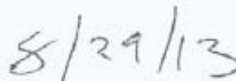
CERTIFICATION

In accordance with Attachment B, Section V.B.1. Standard Provisions – Reporting, Signatory and Certification Requirements, Water Quality Order No. 2013-0002-DWQ Statewide General National Pollutant Discharge Elimination System Permit for Residual Aquatic Pesticide Discharges to Waters of the United States from Algae and Aquatic Weed Control Applications, General Permit No. CAG 990005:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." (40 C.F.R. § 122.22(d).)



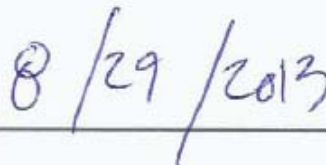
Public Works Director
City of Alameda Public Works Department
950 W. Mall Square, Room 110
Alameda, CA 92501



Date



Tyler Fowler
Manager
Clean Lakes, Inc.
2150 Franklin Canyon Rd.
Martinez, CA 94553



Date

Contents

BACKGROUND INFORMATION 4

DESCRIPTION OF THE TREATMENT AREA..... 14

AQUATIC PESTICIDES AND ADJUVANTS EXPECTED TO BE USED AND
APPLICATION METHODS 15

MONITORING AND REPORTING PROGRAM..... 18

 Monitoring Requirements 18

 Receiving Water Monitoring 20

Reporting..... 30

 Annual Report..... 30

 24 Hour Report and Five Day Reporting..... 31

DESCRIPTION OF PROCEDURES TO PREVENT SAMPLE CONTAMINATION .. 32

DESCRIPTION OF BEST MANAGEMENT PRACTICES (BMPs) TO BE
IMPLEMETED:..... 33

EXAMINATION OF AQUATIC VEGETATION CONTROL ALTERNATIVES..... 37

BACKGROUND INFORMATION

This Aquatic Pesticide Application Plan (APAP) is a comprehensive plan developed by the discharger to comply with the provisions of Water Quality Order No. 2013-0002-DWQ, Statewide General National Pollutant Discharge Elimination System Permit for Residual Aquatic Pesticide Discharges to Waters of the United States from Algae and Aquatic Weed Control Applications, General Permit No. CAG990005, adopted by the State Water Resource Control Board on March 5, 2013.

This Aquatic Pesticide Application Plan (APAP) describes the project site, aquatic plant and algae nuisances, aquatic pesticide products expected to be used, the monitoring program, and Best Management Practices to be followed, as well as the other conditions addressed in the General Permit, Section VIII C, Aquatic Pesticide Use Requirements, Aquatic Pesticide Application Plan.

The use of aquatic pesticides within the Alameda Lagoons is necessary to manage the lake and maintain the beneficial uses that include storm water retention, fishing, swimming, boating, aesthetics, and a habitat and resting place for waterfowl and migratory birds. The Aquatic Vegetation Control Program is an undertaking necessary to control specific types of aquatic vegetation and algae that have become a nuisance to the management of the water body and are impacting its health and beneficial uses. The need for aquatic pesticide application events as part of this program vary from week to week and from season to season due to such things as water temperature, sunlight, nutrient levels, plant and algae growth and other factors. This APAP per the General Permit requirements described below provides the outline to ensure that the Aquatic Vegetation Control Program is successful.

PERMIT COVERAGE: The General Permit (No. CAG990005) addresses the discharge of aquatic pesticides related to the application of 2,4-D, acrolein, copper, diquat, endothall, fluridone, imazapyr, glyphosate, sodium carbonate peroxyhydrate, triclopyr based algaecides and aquatic pesticides, and adjuvants containing ingredients represented

by the surrogate nonylphenol. Aquatic pesticides that are applied to application areas within waters of the United States in accordance with FIFRA label requirements and Use Permit restrictions are not considered pollutants. However, residues associated with aquatic pesticide application require coverage under the General Permit. These include over-applied or misdirected pesticide products and pesticide residues. Residues are any pesticide byproduct, or breakdown product, or pesticide product that is present after the use of the pesticide to kill or control the target weed.

The General Permit does not cover agricultural storm water discharges or return flows from irrigated agriculture because these discharges are not defined as “point sources” and do not require coverage under an NPDES permit. The General Permit also does not cover other indirect or non-point source discharges from applications of pesticides, including discharges of pesticides to land that may be conveyed in storm water or irrigation runoff. The General Permit does not cover the discharge of pollutants related to applications of pesticides other than 2,4-D, acrolein, copper, diquat, endothall, fluridone, imazapyr, glyphosate, sodium carbonate peroxyhydrate, triclopyr based algacides and aquatic pesticides, and adjuvants containing ingredients represented by the surrogate nonylphenol based pesticides; however, the General Permit includes a re-opener statement specifying that the permit may be reopened for the specific purpose of modifying the list of pesticides whose associated discharge is authorized by this General Permit.

WATERS OF THE UNITED STATES: The General Permit regulates the discharge of residues associated with the application of aquatic pesticides to waters of the United States. “Waters of the United States” are defined by the General Permit as follows:

1. All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
2. All interstate waters, including interstate “wetlands;”
3. All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sand flats, “wetlands,” sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:
 - a. Which are or could be used by interstate or foreign travelers for recreational or other purposes;

- b. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
- c. Which are used or could be used for industrial purposes by industries in interstate commerce.
- 4. All impoundments of waters otherwise defined as waters of the United States under this definition;
- 5. Tributaries of waters identified in items 1 through 4 of this definition;
- 6. The territorial sea; and
- 7. "Wetlands" adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (1) through (6) of this definition. Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 C.F.R. section 423.11(m) which also meet the criteria of this definition) are not waters of the United States. This exclusion applies only to manmade bodies of water which neither were originally created in waters of the United States (such as disposal area in wetlands) nor resulted from the impoundment of waters of the United States [See Note 1 of this Section.] Waters of the United States do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with U.S. EPA.

WATER QUALITY STANDARDS: The Clean Water Act (CWA) defines Water Quality Standards as “Provisions of state or federal law which consist of designated uses for the waters of the United States, water quality criteria for waters based upon such uses, and antidegradation policies. Water quality standards are to protect the public health or welfare, enhance the quality of water and serve the purposes of the Act.” [40 Code of Federal Regulations (CFR) section 131.3(i)].

In California, *Water Quality Control Plans* designate the beneficial uses of waters of the State and water quality objectives (WQOs) to protect those uses. The *Water Quality Control Plans* are adopted by the State and Regional Boards through a formal administrative rulemaking process, and, upon approval by USEPA, the WQOs for waters of the United States (generally surface waters) become State water quality standards.

USEPA has established water quality criteria in California for priority pollutants in the National Toxics Rule and the California Toxics Rule (CTR). The CTR criteria are also water quality standards.

EFFLUENT LIMITATIONS: NPDES permits for discharges to surface waters must meet all applicable provisions of sections 301 and 402 of the CWA. These provisions require controls that utilize best available technology economically achievable (BAT), best conventional pollutant control technology (BCT), and any more stringent controls necessary to reduce pollutant discharge and meet water quality standards.

Title 40, CFR section 122.44 states that if a discharge causes, has the reasonable potential to cause, or contributes to an excursion (Reasonable Potential) of a numeric or narrative water quality criterion, the permitting authority must develop effluent limits as necessary to meet water quality standards. Title 40, CFR section 122.44(k)(3) allows these effluent limits to be requirements to implement BMPs if numeric effluent limits are infeasible. It is infeasible for the State Board to establish numeric effluent limitations in this General Permit, because the application of aquatic pesticides is not necessarily considered a discharge of pollutants according to the Talent decision. The regulated discharge is the discharge of residues associated with the application of aquatic pesticides. These include over-applied and misdirected pesticide product and pesticide residue. At what point the pesticide becomes a residue is not precisely known and varies depending on such things as target weed, water chemistry, and flow. Therefore, the effluent limitations contained in the General Permit are narrative and include requirements to develop and implement this APAP that describes appropriate BMPs, including compliance with all pesticide label instructions, and to comply with receiving water limitations.

The BMPs required herein constitute BAT and BCT and will be implemented to minimize the area and duration of impacts caused by the discharge of aquatic pesticides in the treatment area, and to allow for the restoration of water quality and protection of beneficial uses of the receiving waters to pre-application quality following completion of a treatment event.

Once an aquatic pesticide has been applied to an application area, the pesticide product can actively treat the target species within the treatment area. During the treatment event, the aquatic pesticide is at a sufficient concentration to actively kill or control the target weeds plants or algae. When active ingredient concentrations are below this effective

concentration, the aquatic pesticide becomes a residue. The minimum effective concentration, and the time required to reach it, vary due to site specific conditions, such as flow, target species, and water chemistry. The Receiving Water Limitations require that an application event does not result in an exceedance of water quality standards in the receiving water. The receiving water includes:

- Anywhere outside of the treatment area at any time, and
- Anywhere inside the treatment area after completion of the treatment event.

In recognition of the variability in the temporal extent of a treatment event, the General Permit does not require it to be discretely defined. Instead, post-event monitoring of the water is required no more than a week from the time of aquatic pesticide application.

Receiving water limitations are provided in the General Permit and are provided as follows: The instantaneous maximum receiving water limitations are based on promulgated water quality criteria such as those provided in the CTR, water quality objectives adopted by the State and Regional Water Boards in their Basin Plans, water quality criteria adopted by the California Department of Fish and Wildlife, water quality standards such as drinking water standards adopted by U.S. EPA or the California Department of Public Health (CDPH), or the U.S. EPA's National Recommended Ambient Water Quality Criteria.

This General Permit provides receiving water limitations based on the lowest water quality criteria/objectives to protect all designated beneficial uses of the receiving water. The receiving water limitations in this General Permit are similar as those in Order No. 2004-0009-DWQ, with the exception of copper, which has an update formula to calculate copper exceedence limits based on the CTR.

The rationale for each limitation is summarized in the table below:

Constituent/ Parameter	BENEFICIAL USE ¹				Basis
	MUN, µg/L	WARM or COLD, µg/L	Other than MUN, WARM, or COLD, µg/L	All Designations	
2,4,-D	70				U.S. EPA MCL
Acrolein ²	320	21	780		U.S. EPA Water Quality Criteria, 1986.
Copper ²				Dissolved Freshwater ³ Copper Chronic = $0.960 \exp\{0.8545 [\ln(\text{hardness}^4)] - 1.702\}^{5,6}$ Dissolved saltwater ³ Copper Chronic = $0.83 \exp\{0.8545 [\ln(\text{hardness}^4)] - 1.702\}^{5,6}$	California Toxics Rule
Diquat	20				U.S. EPA MCL
Endothall	100				U.S. EPA MCL
Fluridone	560				U.S. EPA Integrated Risk Information System
Glyphosate	700				U.S. EPA MCL
Nonylphenol				Freshwater Chronic Criterion = 6.6 µg/L Saltwater Chronic Criterion = 1.7 µg/L	U.S. EPA National Recommended Ambient Water Quality Criteria
Toxicity	Algaecide and aquatic herbicide applications shall not cause or contribute to toxicity in receiving water(s).				Regional Water Boards' Basin Plans

Notes

1. See Regional Water Boards' Water Quality Control Plans (Basin Plans) for beneficial use definitions.
2. Public entities and mutual water companies listed in Attachment G are not required to meet this receiving water limitation during the exception period described in Section VIII.C.10, Limitations
3. For waters in which the salinity is equal to or less than 1 part per thousand 95% or more of the time, the freshwater criteria apply. For waters in which the salinity is equal to or greater than 10 parts per thousand 95% or more of the time, saltwater criteria apply. For waters in which the salinity is between 1 and 10 parts per thousand, the applicable criteria are the more stringent of the freshwater or saltwater criteria.
4. For freshwater aquatic life criteria, waters with a hardness 400 mg/L or less as calcium carbonate, the actual ambient hardness of surface water shall be used. For waters with a hardness of over 400 mg/L as calcium carbonate, a hardness of 400 mg/L as calcium carbonate shall be used with a default Water-Effect Ratio of 1.
5. Values should be rounded to two significant figures.
6. This limitation does not apply to the Sacramento River and its tributaries above the State Highway 32 Bridge at Hamilton City. See Table III-1 of the Basin Plan for the Sacramento and San Joaquin River Basins for copper limitation.

MONITORING REQUIREMENTS: The General Permit requires dischargers to comply with the Monitoring and Reporting Program (MRP). The goals of the MRP are to:

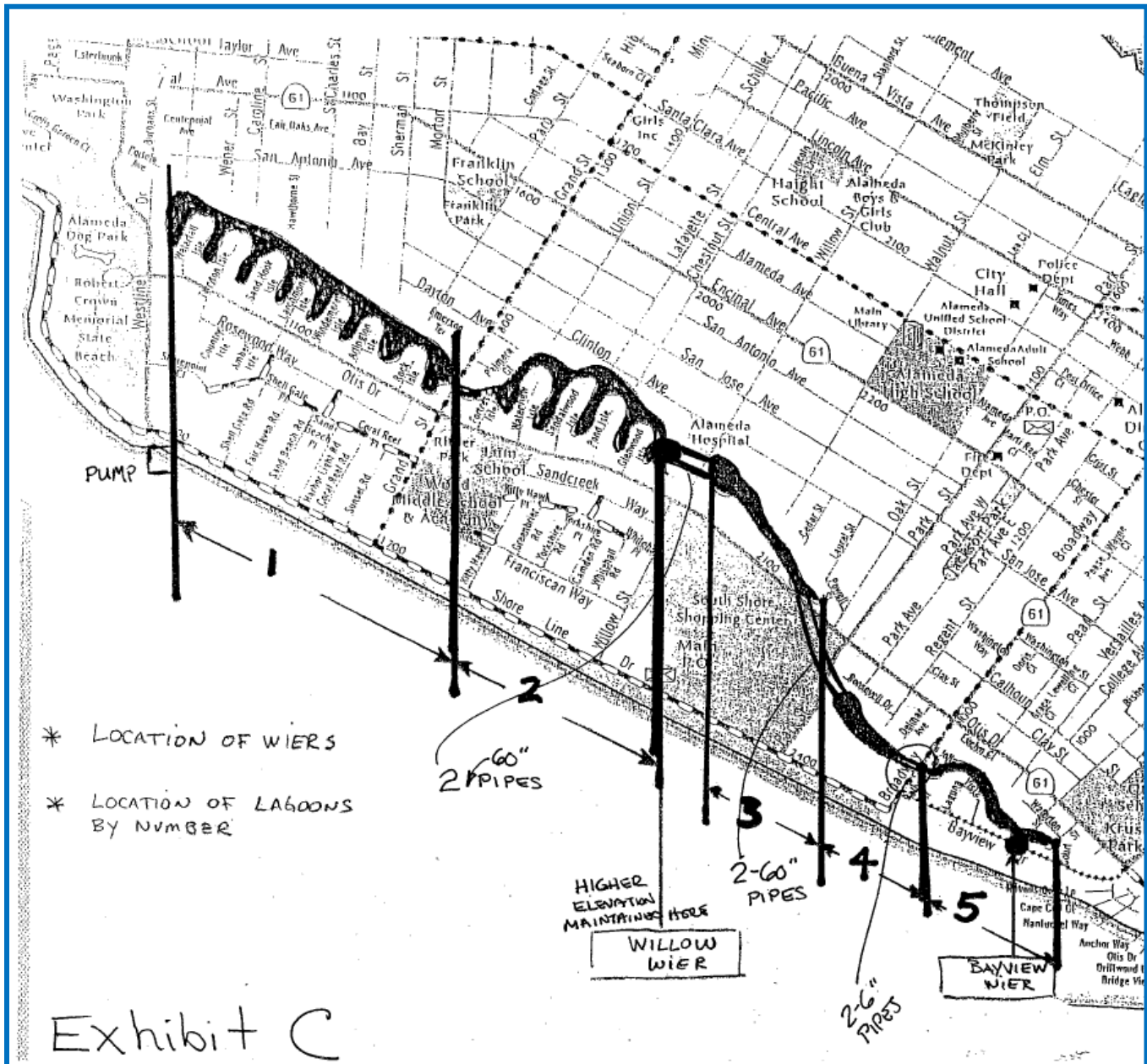
1. Identify and characterize algaecide or aquatic herbicide application projects conducted by the Discharger;
2. Determine compliance with the receiving water limitations and other requirements specified in this General Permit;
3. Measure and improve the effectiveness of the APAP;
4. Support the development, implementation, and effectiveness of BMPs;
5. Assess the chemical, physical, and biological impacts on receiving waters resulting from algaecide or aquatic herbicide applications;
6. Assess the overall health and evaluate long-term trends in receiving water quality;
7. Demonstrate that water quality of the receiving waters following completion of resource or weed management projects are equivalent to pre-application conditions; and
8. Ensure that projects that are monitored are representative of all algaecide or aquatic herbicide applications and methods used by the Discharger.

This APAP was prepared to address the above requirements and those detailed in the General Permit.

DESCRIPTION OF THE WATER SYSTEM

The South shore lagoon system consists of five individual lagoons linked together by approximately 3,070 linear feet of 60-inch reinforced concrete pipe (Exhibit C below). The lagoon system was constructed in the late 1950's and early 1960's, when the existing San Francisco Bay shoreline was filled to create additional single-family residential units, some multi-family structures, and a few commercial properties. The lagoons are approximately two miles in length, have a total surface area of approximately 50 acres, and vary in depth from one foot at the perimeter walls to approximately eight feet in the center.





Lagoon No. 1 extends from Westline Drive (near Shoreline Drive) to Grand Street; Lagoon No. 2 extends from Grand Street to Willow Street; Lagoon No. 3 extends from Willow Street to Park Street; Lagoon No. 4 extends from Park Street to Broadway; and Lagoon No. 5 extends from Broadway to Bayview Drive (near Court Street).

The lagoons are supplied with water from the San Francisco Bay by a 3,000-gallon per minute pump housed in a station located near the Westline Drive/Shoreline Drive curve. The pump only operates during high tides because of the shallow location of the intake

structure. Once the water is pumped into the westerly-most lagoon, it flows through the lagoons by gravity and returns to the Bay at the easterly-most lagoon. The water level is controlled by two weir structures with sluice gates, the Willow weir located at the end of Lagoon No. 2 and the Bayview weir located at the end of Lagoon No. 5 at the outlet structure. These structures allow the water level to be manually raised or lowered to the required height. Water is maintained at a constant level except during the winter rainy season and for annual maintenance.

The lagoons serve as a private, recreational area for the enjoyment of residents living along the lagoons, as well as a channel for storm water during periods of rain. The City of Alameda maintains the lagoons for purposes of storm drainage, private recreational use, and aesthetics.

During the winter months there is an increase in turbidity and the amount of debris entering the lagoons. Migratory waterfowl also frequent the lagoons as well as resident birds. Egrets, herons, and various ducks are the primary migratory waterfowl. Resident birds consist mostly of mallards, Canadian geese, and coots.

The Alameda West Lagoon Home Owners' Association (AWLHOA), made up of the residents fronting the south side of the lagoons, is the record title owner of the lagoon system, and the City has a perpetual easement over it for maintenance purposes. As such, the City consults with the AWLHOA on the maintenance and monitoring of the lagoon system.

The Alameda Lagoons have been experiencing nuisance growths of submerged aquatic vegetation as well as planktonic and filamentous algae blooms that have impacted the beneficial uses of the system that include storm water retention, recreational use, and aesthetics.

As mentioned above the lagoons are approximately two miles in length, have a total surface area of approximately 50 acres, and vary in depth from one foot at the perimeter walls to approximately eight feet in the center.

DESCRIPTION OF THE TREATMENT AREA



Throughout the spring and summer the lagoons are impacted by nuisance growths of submerged aquatic vegetation and algae. All of the lagoons are fairly shallow so aquatic weed growth can occur throughout the entire area of the lagoons. The aquatic weed most commonly controlled in the Alameda lagoons is Widgeon Grass (*Ruppia maritima* L.) The lagoons also get planktonic and filamentous algae blooms. Water volume of the area targeted for submerged aquatic plant control will vary based on water levels within the system, but typical water depths in the treatment areas will average approximately 4-6 feet. The acreages for each lagoon are outlined in the diagram above.

The Alameda Lagoons contain two weir structures and sluice gates. The gates are primarily left open as the lagoons operate as a flow through system. When applications are performed these gates will be closed and inspected prior to the treatments to ensure that they are in good working condition and not open.

APPLICATION SCHEDULE

The City of Alameda and or applicator will provide a phone number or other specific contact information to all persons who request the City of Alameda and or applicator's application schedule and will inform the requester if the schedule is subject to change. Information may be made available posting it on a well-known website.

PUBLIC NOTICE REQUIREMENTS

Every calendar year at least 15 days prior to the first application of algaecide or aquatic herbicide, the City of Alameda and or the applicator will notify potentially affected public agencies. The notification will include all of the information outlined in Section VIII. B.

AQUATIC PESTICIDES AND ADJUVANTS EXPECTED TO BE USED AND APPLICATION METHODS

Provided in the table below are the aquatic herbicides and algaecides that may be used in the aquatic plant and algae control program for the Alameda Lagoons. The need for treatments is based on aquatic weed growth, algal counts and visual monitoring.

	<i>Water Use Restrictions</i>			
<i>Herbicide* Algaecide*</i>	<i>Days for Swimming</i>	<i>Days for Fish Consumption</i>	<i>Days for Irrigation of Turf/Food Crops</i>	<i>Degradation Byproducts</i>
<u>Citrine Plus</u> (Copper as elemental 9.0%)	0	0	0	None
<u>Reward</u> (<i>Diquat dibromide</i>)	0	0	3-5	None
<u>Hydrothol 191</u> (<i>Mono(N,N- dimethylalkylamine salt of endothall</i>)	0	0	0	None

<u>Green Clean Liquid</u> (<i>Hydrogen Dioxide</i>)	0	0	0	None
<u>Nautique</u> (<i>Copper Carbonate 15.9%</i>)	0	0	0	None
<u>Sonar Genesis</u> (<i>Fluridone 6.3%</i>)	0	0	N/A	None
<u>Cygnat Plus</u> (<u>Adjuvant</u>) (<i>Limonene</i>) (<i>Methylated Vegetable Oil</i>) (<i>Alkyl hydrooxypoly oxyethylene</i>)	0	0	0	None

****Refer to Product Labels and MSDS's for Further Information***

The aquatic herbicide Sonar Genesis was added through an amendment to the original APAP in April 2020.

PAK27, GreenClean Liquid, Hydrothol 191, and Cutrine Plus are all of the algaecides used to control planktonic algae in the Alameda Lagoons. Reward, Nautique and Sonar Genesis are all of the herbicides used to control submerged aquatic weeds in the water column. The Cutrine Plus and Nautique have copper based active ingredients. Based on the City of Alameda's Integrated Pest Management Policy (IPM) the City does not want Copper based products used in the lagoons, unless they are used when all other alternatives do not work or if there is an emergency situation. Therefore the applicator will not use these products without first getting approval from the City of Alameda and only when alternatives do not work or when there is an emergency.

Aquatic herbicide and algaecide applications are performed utilizing Best Management Practices (BMP's) by licensed personnel in accordance with a Pest Control Recommendations (PCR) issued by a State of California, Department of Pesticide Regulation (DPR) Pest Control Advisor. Clean Lakes, Inc. performs aquatic plant control applications and water quality monitoring. Clean Lakes, Inc.'s application staff hold State of California, Department of Pesticide Regulation (DPR), Pest Control Advisor licenses and Qualified Applicator Licenses or Certificates. Applications are performed from a boat as surface or subsurface applications based on the target species.

Alternatively, if a granular product is used, an educator or blower application system is used to apply the granular formulation. Aquatic herbicide applications are carried out using GPS technology to track treatment location, date, time and boat speed.

FACTORS INFLUENCING ALGAE AND WEED CONTROL

The decision to implement aquatic vegetation control treatments is based on the plant's growth stage in the spring of each season, and re-evaluated during the summer months. Planktonic and filamentous algae treatments are based on growth as well their nuisance level as they develop, typically through the spring and summer months. When submerged vegetation or planktonic algae is treated in an early growth stage, there is less plant biomass that is controlled, and decomposing in the system, which helps reduce and protect against impacts to dissolved oxygen depletion from decomposing biomass. Based on nuisance levels of aquatic plant growth, and or algae densities and their potential to impact beneficial uses of the lagoon system, a Pest Control Advisor (PCA) will review control options. Based on the PCA's findings, a Pest Control Recommendation (PCR) will be developed for aquatic pesticide applications.

Aquatic herbicide and algaecide treatments are determined based on the following characteristics:

- Clean Lakes Inc. regularly monitors the lagoons for algal growth. When the threshold (Algae Count) is reached Clean Lakes Inc. provides an algaecide treatment. Aquatic weeds are continually monitored throughout the growing season. When aquatic weed growth reaches a nuisance level Clean Lakes Inc. provides aquatic weed treatments.
- The surface area of the Alameda Lagoons is approximately 50 surface acres.
- The water volume of the Alameda Lagoons is calculated to be approximately 200 acre feet (50 surface acres x 4' foot average depth)
- The water volume of the area targeted for aquatic weed control is calculated by determining the surface acreage of the treatment area and then multiplying it by

the average depth in the treatment plot. For example: A two (2) acre plot with an average depth of six feet would result in a 12 acre ft. water volume.

- Water movement through the system is supplied with water from the San Francisco Bay by a 3,000-gallon per minute pump housed in a station located near the Westline Drive/Shoreline Drive curve. The pump only operates during high tides because of the shallow location of the intake structure. Once the water is pumped into the westerly-most lagoon, it flows through the lagoons by gravity and returns to the Bay at the easterly-most lagoon.

MONITORING AND REPORTING PROGRAM

Monitoring Requirements: The General Permit requires that dischargers comply with the Monitoring and Reporting Program (MRP) outlined in the General Permit. The goals of the MRP are to:

1. Identify and characterize algaecide or aquatic herbicide application projects conducted by the Discharger;
2. Determine compliance with the receiving water limitations and other requirements specified in this General Permit;
3. Measure and improve the effectiveness of the APAP;
4. Support the development, implementation, and effectiveness of BMPs;
5. Assess the chemical, physical, and biological impacts on receiving waters resulting from algaecide or aquatic herbicide applications;
6. Assess the overall health and evaluate long-term trends in receiving water quality;
7. Demonstrate that water quality of the receiving waters following completion of resource or weed management projects are equivalent to pre-application conditions; and
8. Ensure that projects that are monitored are representative of all algaecide or aquatic herbicide and application methods used by the Discharger.

General Monitoring

1. The Alameda Lagoons aquatic weed treatments will occur as full lagoon, partial lagoon and spot treatments. Since the Alameda Lagoons receive water continuously from the San Francisco Bay, sample locations will be established in areas not influenced by incoming water according to pre and post event

monitoring schedules outlined in the General Permit. The Event Monitoring samples will be collected at the outlet of the lagoon while the pre and post event monitoring will occur within the treatment area.

2. Algaecide and aquatic herbicide application practices will be established based on the Pest Control Recommendations (PCR) from a DPR licensed Pest Control Advisor (PCA). Aquatic plant and algae growth will be evaluated to determine the potential for creating impacts or nuisances to lake use and management prior to any treatments. The aquatic herbicide and or algaecide labels directions are factored into treatments to determine timing and application rates. Application practices utilize the most appropriate application technique to comply with BMP's via surface or subsurface treatment methods. GIS and GPS technology allow a high level of precision when calculating area and for guiding treatments, respectively.
3. Aquatic herbicides and algaecides are registered by the US Environmental Protection Agency (USEPA) nationally, and the CA Department of Pesticide Regulation (CADPR) within California. Manufacturers of products must provide information to the USEPA for registration or re-registration purposes that includes information with regard to transport, environmental fate and effects of algaecides and aquatic herbicides. Algaecides and aquatic herbicides planned for use in the Alameda Lagoons are registered for use by both the USEPA and the CADPR. Detailed information about transport, fate and effects of algaecides and aquatic herbicides are addressed in USEPA's Re-registration Eligibility Decisions. (RED) Documents for a few of the active ingredients are as follows, the rest can be found on the EPA website:
 - Citrine Plus/Captain (copper):
http://www.epa.gov/oppsrrd1/REDs/copper_red.pdf
 - Reward (diquat dibromide):
<http://www.epa.gov/oppsrrd1/REDs/0288.pdf>
 - Green Clean (sodium carbonate peroxyhydrate):
http://www.epa.gov/pesticides/chem_search/reg_actions/registration/decision_PC-128860_16-Sep-02.pdf

4. Designated Beneficial Uses for the Alameda Lagoons include boating, swimming, fishing, storm water detention, and aesthetics. Cumulative and indirect effects of algaecides and aquatic herbicides are discussed in USEPA Re-registration Eligibility Documents (RED) discussed in item 3 above. No known negative impacts have been observed from aquatic herbicide and or algaecide applications in the Alameda Lagoons.
5. The potential for algaecide and aquatic herbicide applications leading to designated use impacts is unlikely since DPR licensed Qualified Applicators implement the treatments based on a Pest Control Recommendation (PCR) and by following herbicide label directions. Misuse, over use, or use of incorrect products are not expected to occur due to the preparations and planning that take place prior to implementing a treatment.
6. No known or potential impacts from algaecides and aquatic herbicide applications on water quality are anticipated based on following herbicide label requirements, the infrequent applications that are anticipated to take place, and the short duration that algaecides or aquatic herbicides are present in the water column. A Risk Assessment is provided for each of the active ingredients in the USEPA REDs discussed in Item 3.
7. Pre and post water quality sampling stations are sufficient to assess algaecide or aquatic herbicide applications due to the small nature of the lake, the size of the treatments, and the relative ease that sample locations can be visited.
8. The monitoring plan prepared for this APAP is described below.

Receiving Water Monitoring

Treatment Maps: For each application at each site, a treatment map will be developed with a convenient scale showing the application area, treatment area, immediately adjacent untreated areas (if entire water body is not treated), and water bodies receiving treated water. Information about surface area and/or volume of the application area, treatment area, and any other information used to calculate dosage and quantity of each pesticide used at each application site will be included with the algaecide and aquatic herbicide application monitoring log forms (see below).

Sampling locations will be noted on the treatment map and global positioning systems (GPS) coordinates for each sampling site will be noted on application monitoring log forms.

Control Structure Inspections: Prior to every application, an inspection of the integrity of the weirs and sluice gates will be performed to ascertain that treated water does not unintentionally get discharged from the lagoon system.

Aquatic Pesticide Monitoring Frequency: Samples will be collected from a minimum of six application events for each active ingredient. If there are less than six application events in a year, samples will be collected during each application event for each active ingredient. If the results from six consecutive sampling events show concentrations that are less than the receiving water limitation/trigger for an active ingredient, sampling shall be reduced to one application event per year for that active ingredient. If the yearly sampling event shows exceedence of the receiving water limitation/trigger for an active ingredient, then sampling shall return to six application events for that active ingredient.

Aquatic Pesticide Monitoring: The following monitoring activities will be performed for a minimum of six application events, or as many applications as occur in a year if there are less than six application events, at representative locations:

1. Background Monitoring. Background monitoring samples will be collected upstream at the time of the application event or in the application area just prior to (up to 24 hours in advance of) the application event.
2. Event Monitoring. Event monitoring samples will be collected immediately downstream of the treatment area in flowing waters or immediately outside of the treatment area in non-flowing waters immediately after the application event, but after sufficient time has elapsed that treated water would have exited the treatment area.
3. Post-Event Monitoring. Post-event monitoring samples will be collected within the treatment area within one week after application.

Sample Analysis: All samples requiring laboratory analyses will be collected and analyzed by a laboratory certified for such analyses by the California Department of Health Services. All analyses will be conducted in accordance with the latest edition of “Guidelines Establishing Test Procedures for Analysis of Pollutants” (Guidelines), promulgated by the U.S. Environmental Protection Agency (USEPA) (Title 40 Code of Federal Regulations part 136). Field analysis for the parameters of temperature, dissolved oxygen (DO), electrical conductivity, and pH will be performed using a Portable Multi-Parameter Meter (YSI or equivalent) with a sufficiently long probe cable, and will be maintained and calibrated at regular intervals according to the manufacturer specifications. Secchi Disk measurements will be performed using a standard Secchi disk. Water samples collected for laboratory analysis will be accompanied with a completed chain of custody form identifying the chemical constituents requiring analysis, and delivered to a State of California Certified Laboratory per the NPDES Permit requirements.



Monitoring Parameters: The following parameters will be collected or analyzed:

Sample Type	Constituent/Parameter	Units	Sample Method	Minimum Sampling Frequency	Sample Type Requirement	Required Analytical Test Method
Visual	1. Monitoring area description (pond, lake, open waterway, channel, etc.) 2. Appearance of waterway (sheen, color, clarity, etc.) 3. Weather conditions (fog, rain, wind, etc.)	Not applicable	Visual Observation	1	Background, Event and Post-event Monitoring	Not applicable
Physical	1. Temperature ²	°F	Grab ⁴	5	Background, Event and Post-event Monitoring	6
	2. pH ³	Number				
	3. Turbidity ³	NTU				
	4. Electric Conductivity ³ @ 25°C	µmhos/cm				
Chemical	1. Active Ingredient ⁷	µg/L	Grab ⁴	5	Background, Event and Post-event Monitoring	6
	2. Nonylphenol ⁸	µg/L				
	3. Hardness (if copper is monitored)	mg/L				
	4. Dissolved Oxygen ²	mg/L				

¹ All applications at all sites.

² Field testing.

³ Field or laboratory testing.

⁴ Samples shall be collected at three feet below the surface of the water body or at mid water column depth if the depth is less than three feet.

⁵ Collect samples from a minimum of six application events for each active ingredient in each environmental setting (flowing water and non-flowing water) per year, except for glyphosate. If there are less than six application events in a year, collect samples during each application event for each active ingredient in each environmental setting (flowing water and non-flowing water). If the results from six consecutive sampling events show concentrations that are less than the receiving water limitation/trigger for an active ingredient in an environmental setting, sampling shall be reduced to one application event per year for that active ingredient in that environmental setting. If the yearly sampling event shows exceedance of the receiving water limitation/trigger for an active ingredient in an environmental setting, then sampling shall return to six application events for that active ingredient in each environmental setting. For glyphosate, collect samples from one application event from each environmental setting (flowing water and non-flowing water) per year.

⁶ Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. part 136.

⁷ 2,4-D, acrolein, dissolved copper, diquat, endothall, fluridone, glyphosate, imazamox, imazapyr, penoxsulam, and triclopyr.

⁸ It is required only when a surfactant is used.

Sampling Procedures: Samples will be collected using sampling procedures which minimize loss of monitored constituents during sample collection and analysis to maintain sample integrity.

Sampling protocols: Samples will be retrieved, stored, recorded, and shipped to a third party laboratory using the following methods and precautions. Any deviation from these methods and precautions will be recorded and explained.

Materials for in field sampling:

- 1) New sampling bottles, one per sample with sample ID label.
- 2) Cooler(s) sufficient to hold ample bottles, with ice- or gel-packs
- 3) Plastic gloves
- 4) Subsurface grab sampler
- 5) Depth finder, marked pole, Secchi Disk (cord marked with half foot increments), or water quality monitoring probe with depth sensor.
- 6) Instrument(s) for measurement of temperature, pH, dissolved oxygen, hardness, electrical conductivity, depth.
- 7) GPS for sample location coordinates.
- 8) Field data sheets and clipboard
- 9) A clean boat and a transport vehicle

Method to collect a single sample: Samples will be simple grab samples.

- 1) When approaching a sampling location, care will be taken to not stir up sediments and to approach from downstream or down wind direction. If anchoring is required, lower anchor gently.
- 2) Immediately prior to collecting the sample, the sample bottle label details will be completed (i.e. date, time, sample collector...)
- 3) When taking the sample, the cap will be left on the bottle until it is at three feet of depth or at midpoint in the water column if less than three feet, per the monitoring forms outlined below.
- 4) Once the bottle is at the appropriate depth, the cap will be removed below the surface. Stirring of the sediments will be avoided.
- 5) The bottle will be rinsed with sample water and emptied twice, then filled completely
- 6) Once the bottle is full, it will be capped.
- 7) The bottle will be placed in the appropriate cooler. The bottles will be kept in contact with ice packs
- 8) Other water quality measurements will be taken and recorded
- 9) The Water Sampling Data Sheet will be filled out with information for the sample

- 10) In the office, the bottle will be placed into a refrigerator, unless samples are taken immediately to a laboratory.

SPECIAL NOTES:

- 1) For a spot treatment, a sketch map will be made showing the site of the treatment and the location of the sample relative to the treated area
- 2) In addition, a Global Positioning System (GPS) reading will be taken, noting the latitude and longitude in WGS 1984 datum to six decimal places and recording on the application monitoring form.

Submitting sample to lab:

- 1) Samples will be submitted within 48 hours of sample collection or sooner to a laboratory.
- 2) Samples will be packed in a cooler with ice packs between each bottle
- 3) Chain of Custody (COC) form will be prepared to include details on the sample bottle labels.
- 4) If the samples are shipped to the lab, the pick-up person will sign the COC and a copy will be made before sending out the shipment. If the samples are delivered to the lab, the delivering person will have the receiving person sign the COC form and provide a copy before turning over the shipment.

Retention of Records: Records of all monitoring information including all calibration and maintenance records, copies of all reports required by the General Permit, and records of all data used to complete the application per the General Permit will be retained. Records will be maintained for a minimum of three years from the date of the sampling event. This period may be extended during the course of any unresolved litigation regarding a discharge, or when requested by the appropriate Regional Board Executive Officer.

Monitoring Records: Records of monitoring events will include the following information:

- a. The date, exact place, and time of sampling or measurements;
- b. The individuals who performed the sampling or measurements;
- c. The date's analyses were performed;
- d. The individuals who performed the analyses;
- e. The analytical techniques or method used; and
- f. The results of such analyses.

The following forms will be used to collect and track information required for each treatment event as required by the General Permit:

CLEAN LAKES, INC.

AQUATIC WEED CONTROL NPDES AQUATIC PESTICIDE APPLICATION LOG

Date of Application:		Location:		App. Start Time: App. Stop Time:	
Applicator Name:			APAP Certification:		
Attach map showing application area, treatment area, immediately adjacent untreated area, and water bodies receiving treated water.					
Discharge Gates or Control Structures					
Name	Date Closed	Time Closed	Date Opened	Time Opened	
1.					
Calculations to Determine Opening and Closures:					
2. Provide information on surface area and/or volume of application area and treatment area and other information used to calculate dosage and quantity of each pesticide used at each application site:					
2.a Application Area – Surface Area:			2.b Application Area – Volume:		
2.c Treatment Area – Surface Area:			2.d Treatment Area – Volume:		
2.e Dosage and Quantity Information for each pesticide used:					
Application Details					
Plot Number	Area (ac. or sq. ft.)	Average Depth	Product	Product Quantity	Concentration or Rate

For additional treatment areas use additional forms.

AQUATIC WEED CONTROL NPDES RECEIVING WATER MONITORING

Visual Observation Form (Background Monitoring)

Monitoring Date:		Location:		Sampled by:	
Monitoring Area Description (pond, lake, waterway channel,...):					
Site Conditions/Appearance of Waterway					
Floating or suspended matter: Present <input type="checkbox"/> Absent <input type="checkbox"/>		Discoloration: Present <input type="checkbox"/> Absent <input type="checkbox"/>		Bottom deposits: Present <input type="checkbox"/> Absent <input type="checkbox"/>	
Visible films, sheens or coatings: Present <input type="checkbox"/> Absent <input type="checkbox"/>		Fungi, slimes, or objectionable growths: Present <input type="checkbox"/> Absent <input type="checkbox"/>		Aquatic life: Present <input type="checkbox"/> Absent <input type="checkbox"/>	
				Potential nuisance conditions: Present <input type="checkbox"/> Absent <input type="checkbox"/>	
Weather conditions and other observations (fog, rain, wind, wind direction...):					

Visual Observation Form (Event Monitoring)

Monitoring Date:		Location:		Sampled by:	
Monitoring Area Description (pond, lake, waterway channel,...):					
Site Conditions/Appearance of Waterway					
Floating or suspended matter: Present <input type="checkbox"/> Absent <input type="checkbox"/>		Discoloration: Present <input type="checkbox"/> Absent <input type="checkbox"/>		Bottom deposits: Present <input type="checkbox"/> Absent <input type="checkbox"/>	
Visible films, sheens or coatings: Present <input type="checkbox"/> Absent <input type="checkbox"/>		Fungi, slimes, or objectionable growths: Present <input type="checkbox"/> Absent <input type="checkbox"/>		Aquatic life: Present <input type="checkbox"/> Absent <input type="checkbox"/>	
				Potential nuisance conditions: Present <input type="checkbox"/> Absent <input type="checkbox"/>	
Weather conditions and other observations (fog, rain, wind, wind direction...):					

Visual Observation Form (Post Event Monitoring)

Monitoring Date:		Location:		Sampled by:	
Monitoring Area Description (pond, lake, waterway channel,...):					
Site Conditions/Appearance of Waterway					
Floating or suspended matter: Present <input type="checkbox"/> Absent <input type="checkbox"/>		Discoloration: Present <input type="checkbox"/> Absent <input type="checkbox"/>		Bottom deposits: Present <input type="checkbox"/> Absent <input type="checkbox"/>	
Visible films, sheens or coatings: Present <input type="checkbox"/> Absent <input type="checkbox"/>		Fungi, slimes, or objectionable growths: Present <input type="checkbox"/> Absent <input type="checkbox"/>		Aquatic life: Present <input type="checkbox"/> Absent <input type="checkbox"/>	
				Potential nuisance conditions: Present <input type="checkbox"/> Absent <input type="checkbox"/>	
Weather conditions and other observations (fog, rain, wind, wind direction...):					

AQUATIC WEED CONTROL NPDES RECEIVING WATER MONITORING

Physical and Chemical Monitoring **Location:** _____ **Sampled by:** _____

(Physical and chemical monitoring required for six (6) applications for each type of pesticide at each waterbody site. See General Permit)

1. Background Monitoring Parameters (u/s or at treatment area up to 24 hours before or at time of treatment)			Date:
Physical Sample Type (3 feet below water surface or mid depth if < 3 feet)	Temperature (F) ¹	Turbidity (NTU) ²	Electrical Conductivity (µmhos/cm) ²
Chemical Sample Type (3 feet below water surface or mid depth if < 3 feet)	Active Ingredient (µg/l)	Nonylphenol (µg/l) ³	pH ²
	Dissolved Oxygen (mg/L) ²	Hardness (CaCO₃) ⁴	GPS latitude and longitude coordinates
2. Event Monitoring Parameters (d/s or immediately adjacent to treatment area immediately after application)			Date:
Physical Sample Type (3 feet below water surface or mid depth if < 3 feet)	Temperature (F) ¹	Turbidity (NTU) ²	Electrical Conductivity (µmhos/cm) ²
Chemical Sample Type (3 feet below water surface or mid depth if < 3 feet)	Active Ingredient (µg/l)	Nonylphenol (µg/l) ³	pH ²
	Dissolved Oxygen (mg/L) ²	Hardness (CaCO₃) ⁴	GPS latitude and longitude coordinates
3. Post Event Monitoring Parameters (w/i treatment area + immediately d/s in flowing water or adjacent to treatment area w/i 1 week)			Date:
Physical Sample Type (3 feet below water surface or mid depth if < 3 feet)	Temperature (F) ¹	Turbidity (NTU) ²	Electrical Conductivity (µmhos/cm) ²
Chemical Sample Type (3 feet below water surface or mid depth if < 3 feet)	Active Ingredient (µg/l)	Nonylphenol (µg/l) ³	pH ²
	Dissolved Oxygen (mg/L) ²	Hardness (CaCO₃) ⁴	GPS latitude and longitude coordinates

¹ Field Test; ² Field or Laboratory Test; ³ Required when nonylphenol is used; ⁴ Required for copper applications.

Device Calibration and Maintenance: All monitoring instruments and devices that will be used by the discharger to fulfill the prescribed monitoring program will be properly maintained and calibrated as necessary to ensure their continued accuracy.

Reporting

Annual Report

All reports will be submitted to the appropriate Regional Board Executive Director or Deputy Director. All reports submitted in response to the Water Quality Order will comply with the provisions stated in the Standard Provisions (Attachment B) and Monitoring and Reporting Program (Attachment C), of the General Permit. The Annual reports will contain the following information:

- An executive summary discussing compliance or violation of the General Permit, and the effectiveness of the APAP to reduce or prevent the discharge of pollutants associated with algaecide and aquatic herbicide applications;
- A summary of monitoring data, including the identification of water quality improvements, or degradation as a result of the algaecide or aquatic pesticide application, if appropriate, and recommendations for improvements to the APAP (including proposed best management practices (BMPs) and monitoring program based on the monitoring results). All receiving water monitoring data will be compared to receiving water limitations and receiving water monitoring triggers;
- Identification of BMPs currently in use and a discussion of their effectiveness in meeting the requirements in this General Permit;
- A discussion of BMP modifications addressing violations of this General Permit;
- A map showing the location of each treatment area;
- Types and amounts of algaecides and aquatic herbicides used at each application event;

- Information on surface area and/or volume of treatment areas and any other information used to calculate dosage, concentration, and quantity of each algaecide and aquatic herbicide used;
- Sampling results will indicate the name of the sampling agency or organization, detailed sampling location information (including latitude and longitude or township/range/section if available), detailed map or description of each sampling area (address, cross roads, etc.), collection date, name of constituent/parameter and the concentration detected, minimum levels, method detection limits for each constituent analysis, name or description of water body sampled, and a comparison with applicable water quality standards, and a description of the analytical QA/quality control plan. Sampling results will be tabulated so that they are readily discernible; and
- A summary of the algaecide and aquatic herbicide application logs.

24 Hour Report and Five Day Reporting

The City of Alameda and or applicator will orally report any non-compliance. This includes any unexpected or unintended effect of the use of an algaecide or aquatic herbicide that may danger health or the environment. This information will be provided orally within 24 hours from the time the City of Alameda or applicator becomes aware of the circumstances. A written report of the non-compliance will be provided within five (5) days of the time the City of Alameda and or applicator becomes aware of the noncompliance. The 24 hour report as well as the 5 day written report will follow the format in Attachment C.

Data Storage: All data will be recorded on supplied forms. At the end of each day, all data forms will be double copied. The original will stay in specified notebooks. The first copy will be stored in a file cabinet. The second copy will be stored and shipped with the samples.

Quality Assurance Audits and Personnel: The discharger will provide a Quality Assurance Officer and the Certified Laboratory will provide one Quality Assurance Officer. In addition, the Water Quality Control Board is welcome to provide third party validation of the sampling procedures.

Methods for Determination of Other Water Quality Parameters: Water quality parameters such as pH, dissolved oxygen, and temperature will be measured by appropriate instrumentation within the manufacturer's tolerances. These parameters will be measured at the same sites where water samples for aquatic pesticides are retrieved. These parameters will be measured at the same depths from which the water samples for aquatic pesticides are retrieved, within +/- 0.5 meters. Data and deviations will be recorded on specified forms and/or lab notebooks.

Methods for Data Summarization, Analysis, Review, and Reporting: All data will be included in the final report. The final report will also contain narrative and numerical summaries as appropriate. Final data reports will also be reviewed by a Quality Assurance Officer.

Training on Sampling Techniques: All personnel performing water sampling will have been trained before water sampling is scheduled to begin, a training session will be held reviewing sampling technique; equipment and instrument calibration, maintenance, and operation; sample storage and delivery; the proper use of COC and other forms; and other records and deviations.

DESCRIPTION OF PROCEDURES TO PREVENT SAMPLE CONTAMINATION

Measures will be taken to prevent sample collection contamination from persons, equipment and vehicles associated with algaecide and aquatic herbicides application, as follows:

- Background monitoring sample collection will be carried out prior to application equipment or algaecides/aquatic herbicides being loaded into a boat. Background monitoring sampling, as well as post event monitoring sampling (within one week), if appropriate, sampling may be carried out from shore at a dock within the sampling areas to eliminate the potential for contamination. Sampling equipment, with particular emphasis on cooler and sample bottles will be transported separately from algaecides or

aquatic herbicides and application equipment on the day of the application event.

Background monitoring will take place immediately prior to the application event.

- For event monitoring, sampling will be carried out after application equipment and all application related equipment and devices including personal protection equipment (PPE) used during the application has been removed from the boat, if no other boats are available to support sampling efforts. If there are multiple personnel supporting applications, one will be designated the sample collector while the other will be responsible for boat operation. Hands will be washed with soap and clean potable water before handling sampling equipment, cooler and sample bottle. During sample bottle handling and sample collection, disposable rubber gloves will be used to collect a water sample. The pre labeled sample bottle will be completed with time and date of sample collection immediately after removing from the sample cooler and replaced in the cooler immediately after sample collection. Once sampling has been completed, water samples will be delivered immediately to the laboratory, if possible. If background and event samples cannot be delivered the same days, sample bottles will be stored in a clean refrigerator at the office until samples can be delivered the next business day.

DESCRIPTION OF BEST MANAGEMENT PRACTICES (BMPs) TO BE IMPLEMENTED:

A variety of approaches will be utilized to minimize the impacts of aquatic pesticides used while still achieving their goals.

- Techniques that help reduce pesticide impacts include:
 - Non-pesticide control methods as outlined below (Alternatives) have been attempted or considered.
 - Pre Treatment surveys are carried out to identify potential treatment areas and timing
 - Adjustments will be made to treatment protocols based upon survey results
 - Choice of pesticides based on toxicity
 - All attempts will be made to time treatments when no water is being discharged from the lake system

- Aquatic Pesticide use rates will be per the EPA label and will be limited to ensure compliance with Receiving Water Limitations
 - Partial water body treatments or split treatments will be utilized to minimize impacts that might otherwise occur
- From the aquatic herbicides available, the most effective and safest options have been selected for use in this program. The Pest Control Advisor (PCA) and Herbicide application personnel (Qualified Applicators) know the strengths and weaknesses of the various available options, and take them into consideration when choosing a treatment protocol for a specific site.
- In order to avoid inadvertent or accidental soil or water contamination with aquatic pesticides, application personnel follow the storage, transport, and spill control procedures per USEPA and DPR rules, regulations and label instructions.
- Over application is avoided by following the specific product labels for the aquatic pesticides used in the program. Algaecide and aquatic herbicide quantities required for each treatment are calculated at the office and only sufficient material to carry out the treatment is transported for the day's application. Application equipment is routinely cleaned and maintained, and all label directions and DPR guidelines are followed as to acceptable application methods as well as weather conditions. Surface applications are not made in winds above 10 miles per hour.
- The various BMP's being implemented ensures that the Aquatic Vegetation Control Program will meet the requirements of the general NPDES Permit for the use of aquatic pesticides.
- Licensing: All crew leaders and biologists that apply or supervise the application of aquatic pesticides are certified and or licensed by DPR.
- Notification: As detailed elsewhere in this document, whenever pesticides are used that might lead to damage to irrigated landscape (the most severe potential impact on beneficial uses caused by the program), potentially affected users in the area are informed

of the treatments so that means can be taken to avoid using the treated water for irrigation purposes.

- **Site Evaluations:** As has been detailed in this section and elsewhere, both preliminary and secondary site evaluations are a major aspect of the program, as represented by the extensive surveying carried out by the field crews.
- **Alternative Treatments:** Staff considers a number of potential alternative control strategies in every situation, and will make use of non-herbicide options when conditions are suitable.
- **Treatment Conditions:** Every application is made according to label directions and other requirements as directed by DPR or the agricultural commissioner, which not only specify the amounts and situations where pesticides may be applied, but the atmospheric and environmental conditions under which they may be applied. If there are conditions where it is determined that the treatment would be ineffective, application staff wait for other conditions or use a different treatment method.
- **Post-treatment:** Surveys are also carried out for post-treatment assessment of treatment efficacy and non-target impacts. Survey crews are instructed to look for possible non-target impacts that can be seen with the naked eye, such as dead fish or damage to plants on the shoreline.
- The applicator follows all pesticide label instructions and any Use Permits issued by a CAC;
- The discharger's applicators are licensed by DPR, or work with or under the supervision of someone who is licensed;
- The discharger's applicators comply with effluent limitations
- The discharger's applicators will follow this Aquatic Pesticide Application Plan (APAP);

- The discharger's applicator's comply with applicable receiving water limitations; and
- The discharger's applicators will comply with the monitoring and reporting requirements outlined in this APAP.

Aquatic Pesticide Use Requirements:

- **License Requirements.** Dischargers applicators will be licensed by DPR if such licensing is required for the aquatic pesticide application project
- **Application Requirements.** The pesticide will be consistent with FIFRA pesticide label instructions and any Use Permits issued by CACs.
- **Application Schedule.** When requested, the City of Alameda and or Applicator will provide a phone number to persons who request the discharger's application schedule. The City of Alameda and or Applicator will provide the requester with the most current application schedule and inform the requester if the schedule is subject to change. Information may be made available by electronic means.
- **Public Notice Requirements.** Every calendar year, at least 15 days prior to the first application of aquatic pesticides, the City of Alameda will notify potentially affected public agencies. The City of Alameda will post the notification on its website if available. The notification will include the following information:
 1. A statement of the discharger's intent to apply algaecide or aquatic herbicide(s);
 2. Name of algaecide and or aquatic herbicide to be used;
 3. Purpose of use;
 4. General time period and locations of expected use;
 5. Any water use restrictions or precautions during treatment; and
 6. A phone number that interested persons may call to obtain additional information from the Discharger.

EXAMINATION OF AQUATIC VEGETATION CONTROL ALTERNATIVES

All appropriate aquatic plant management technologies within the context of the identified beneficial uses and impacted areas of the lagoons have been evaluated, and include all available cultural, biological, mechanical, and aquatic pesticide formulations.

Aquatic weed and algae control options have been broken down into four basic categories that include:

- Watershed Management
- Biological Control
- Physical and Mechanical Control
- Aquatic Algaecides and Herbicides

A discussion on each of the options follows:

Watershed Management and the Runoff Impacts:

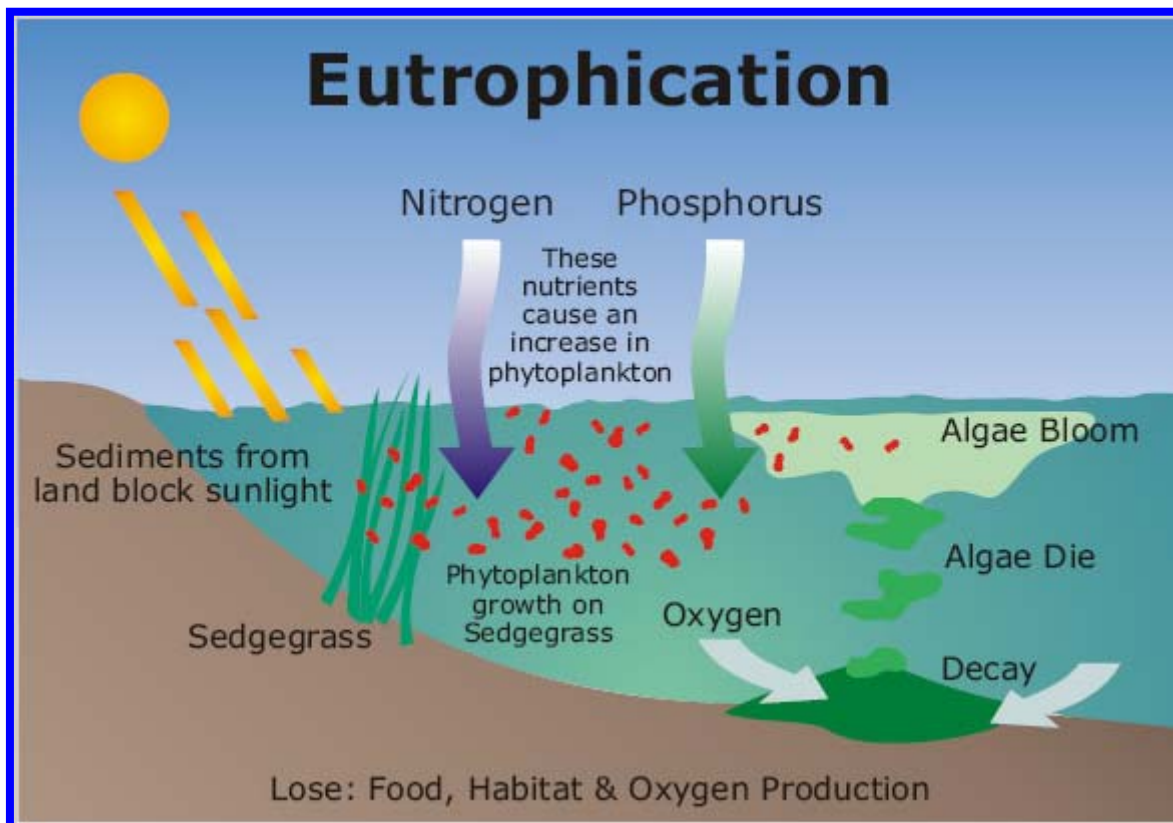
Watershed management is one of the most important control parameters as it deals with limiting nutrients and runoff into a lake system from the watershed. It entails implementing practices in the watershed that will support the reduction of nutrient and other pollutant runoff into the lake system. In natural areas, 10 % is runoff and 50 to 60 % is direct infiltration (*Runoff Coefficients for the Rational Method of Estimating Rainfall* (McCuen, 1989)).

- Runoff Impacts
 - Non-point source pollution poses the most serious threat to the water quality of lakes.
 - Non-point pollution in runoff includes: sediments, oil, anti-freeze, road salt, pesticides, yard wastes and pet and waterfowl droppings.

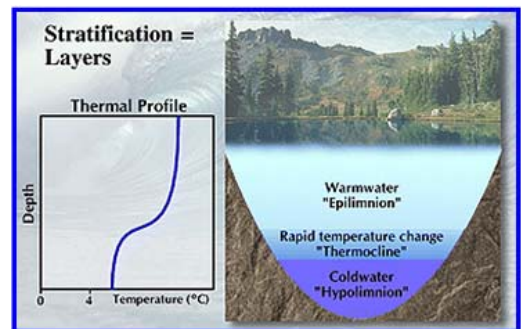
- Nutrient Effects
 - Increase in algae blooms
 - Odor problems
 - Depletion of oxygen supply
 - Fish kills
 - Decrease in water clarity

- Increase in the amount of rooted aquatic plants growing in the shallow waters of a lake
- Reduction in the recreational value of the lake hinders boating, fishing, and reduces overall aesthetics of the lake

Eutrophication Process and Impacts:



- Impacts of Eutrophication
 - Fish kills due to low oxygen or high metals
 - Taste and odor problems, resulting in an increase in water treatment costs
 - Floating algae mats, decaying vegetation
 - Increased littoral vegetation in shallow areas
 - Mobilization of sediment bound metals and ions during anoxic conditions (e.g., copper, ammonia, iron, sulfur, phosphorus)
 - Increased temperature
 - Reduced water clarity
 - Nuisance algal blooms
 - Reduced dissolved oxygen in hypolimnion
 - Earlier onset and/or longer duration of periods of anoxia in hypolimnion



Several tools are available to control the use and misuse of the land surrounding the lake that includes:

- Comprehensive Plans to guide long-term growth;
- Storm Water and Surface Water Management Planning that considers data collection, land use, system site considerations, and design criteria for structures in setting goals for watershed runoff; and Rules for Lake Uses such as where, when and how a lake can be used recreationally to control shoreline erosion, nutrient recirculation and overuse.
- Other administrative alternatives may include shoreline erosion and sedimentation control management programs. Education is still probably the best way to combat water quality issues.

Non-structural alternatives: best management practices, such as buffer strips around water bodies to filter out sediments and reduce nutrients, are examples of non-structural alternatives. Chemical inactivation/precipitation of in-lake phosphorus, chemical control of algae, dredging of accumulated sediments, and mechanical harvesting of aquatic vegetation are additional examples.

Structural alternatives: Storm water detention basins and wetland treatment systems are structural alternatives that detain runoff to control peak flow rates and control downstream flooding. They also allow pollutants to settle out of the water before reaching the lake. Diversions routing storm water away from the lake and in-lake aeration systems to oxygenate the water are other structural alternatives

Watershed Management

The City of Alameda currently has a Watershed Management Plan in place that helps reduce the impacts from the areas surrounding the lagoons. The City is actively involved in reviewing new and improved methods to improve the lagoons and is always updating their watershed management practices. One of the most recent additions to this program was the addition of three new trash capture devices to three different locations that drain into the lagoons. These devices not only capture trash but also organic debris that can contribute to the nutrient load in the lagoons. The City has plans to install additional units in the near future as well. The Watershed Management Plan alone has not proven to provide enough nutrient limitation to avoid aquatic weed growth and planktonic and filamentous algae blooms.

Biological Control

There are very few biological control options for eliminating aquatic weeds and algae. One option used in smaller water bodies is treatment with microbes and beneficial bacteria that

digests organic wastes generated by animal and plant life in the body of water, thus reducing the bottom sludge layer which provides nutrients to the water bodies. This option is currently used in the Alameda Lagoons (Cygnet Mukkbuster) to reduce the amount of organic waste and sludge and it also works well on the odor issues that emanate from these same waste materials.



Physical

Aeration & Water Quality Alteration: Aeration has been used for decades to circulate water and increase Dissolved Oxygen within lake and pond systems. In stratified lake systems where the bottom layers are anoxic during the summer months, a properly designed aeration system will limit nutrient recycling by supporting aerobic bacteria that support nutrient breakdown in bottom waters and the hydrosol. Aeration has proven to be a successful tool for reductions in planktonic algae growth in lakes and reservoirs. Systems vary in size and style from fountains to bottom bubbler diffuser type systems to hypolimnetic units that oxygenate the lower water below the thermocline. Aeration is an option in the lagoons and would likely help in some of the areas that don't receive a lot of water turnover. However the pump induced flow through of water going through the lagoons does a good job of aerating and flushing the system.



Shading/Light Attenuation:

A basic environmental manipulation for algae control is light reduction or attenuation. Organic dye can be added to a lake or pond system and is usually a blend of blue and yellow dyes specifically designed to screen or shade portions of the sunlight spectrum (red-orange and blue-

violet) required by underwater aquatic plant and algae growth. This action effectively inhibits photosynthesis required for algae growth. Aquashade or a generic such as Cygnet Select is primarily effective at depths of 2 feet or greater.

Aquashade is non-corrosive and will not stain bathing suits, fountain surfaces or other water features at use dilution rates. This option was implemented in the lagoons in 2012 with mixed results. The dye provided a significant reduction in aquatic weed and algae growth and the residents for the most part were fond of the color. However the



lagoons have been dealing with a fecal coliform issue for decades with counts regularly going above the desired threshold. When the lagoons were shut down and made into a closed system for the dye program, the fecal coliform counts increased and stayed at a high level. Basically the closed system was not allowing the dilution and flushing that the open system provided.

Therefore the City of Alameda and the Alameda West Lagoon Home Owners Association (AWLHOA) have decided that going with an open system is in their best interest moving forward.

Sediment Removal:

Dredging is usually not performed solely for aquatic plant management but to restore water bodies that have been filled in with sediments, have excess nutrients, have inadequate hypolimnetic zones, need deepening, or require removal of toxic substances. However, water bodies that are very



shallow due to sedimentation typically do have excess plant and algae growth. The City of Alameda and the Alameda West Lagoon Home Owners Association (AWLHOA) have been developing a dredging plan over the last several years. This plan includes dredging the entire lagoon system with the goal of removing a significant amount of sediment. The main issue

holding this project up is the enormous costs, which are estimated to be around a few million dollars. Not only is the actual dredging expensive but the disposal of the dredged material is

where the costs really start adding up. Even if this project is completed in the near future it would not insure a reduction in aquatic plant growth or algae blooms.



Mechanical

Mechanical removal of aquatic weeds is not recommended in the Alameda Lagoons as the dominate weed species in the lagoons is Widgeon Grass (*Ruppia maritime L.*) which is capable of asexual reproduction which takes place when new stems grow from the plant's root and rhizome system. The aquatic weed harvesters while cutting would be uprooting and spreading the plants roots and rhizomes throughout the lagoons, thus creating the potential for several new Widgeon Grass infestations. Mechanical harvesting is also pretty expensive when you add up the mobilization costs, machine maintenance, support equipment, labor, and the costs of removing the harvested material from the site to the landfill.



INTEGRATED AQUATIC VEGETATION CONTROL RECOMMENDATIONS:

The recommended control strategy includes establishment of treatment thresholds, monitoring protocols to determine when thresholds are exceeded, and protocols to implement control measures when thresholds are exceeded in compliance with Best Management Practices. The control recommendations to deal with exotic and nuisance aquatic vegetation growth present within the systems have been determined based on survey results, and recommended schedules

for aquatic vegetation control are outlined in the APAP. It is recommended that an integrated approach that includes both watershed management and aquatic herbicide and algaecide treatments be initiated to control nuisance growths of algae and aquatic vegetation prior to their impact to the beneficial uses of the system.

A matrix that presents the control methods that have been reviewed for implementation follows:

Matrix of Control Options

OPTION	METHOD	PRACTICAL	RANK
Watershed Management	Structural	Implemented	10
	Non Structural	Implemented	10
Biological Control	Beneficial Bacteria and Enzymes	Implemented	5
Physical and Cultural Control	Sediment Removal	Planned	4
	Light Limitation	Being Tested	4
	Aeration	Not Practical	2
	Draw Down	Not Practical	1
	Hand Harvesting	Not Practical	1
	Benthic Barriers	Not Practical	1
Mechanical Control	Diver Dredging	Not Practical	1
	Harvesting	Not Practical	1
Herbicides/ Algaecides	Various	Implemented	8

APAP UPDATES: This APAP will be updated as the General Permit conditions change, any new algaecides or aquatic herbicides are need for the aquatic vegetation management program, or as new control technologies are developed and become available.

END OF APAP

References

- Water Quality Order No. 2013-0002-DWQ, General Permit No. CAG990005, Statewide General National Pollutant Discharge Elimination System Permit for Residual Aquatic Pesticide Discharges to Waters of the United States from Algae and Aquatic Weed Control Applications.

EXHIBIT C. Standard Agreement and Insurance Requirements

SERVICE PROVIDER AGREEMENT

This SERVICE PROVIDER AGREEMENT (“**Agreement**”) is entered into this ____ day of _____, 20__ (“**Effective Date**”), by and between the CITY OF ALAMEDA, a municipal corporation (“the **City**”), and COMPANY, a (California corporation, LLC, LP, GP, sole proprietor/individual), whose address is ADDRESS (“**Provider**” or “**Contractor**”), in reference to the following facts and circumstances:

RECITALS

A. The City is a municipal corporation duly organized and validly existing under the laws of the State of California with the power to carry on its business as it is now being conducted under the statutes of the State of California and the Charter of the City.

B. The City is in need of the following services: Vegetation and Debris Management, Water Quality Services for Alameda West Lagoons. City staff issued an RFP on DATE and after a submittal period of NUMBER days received NUMBER of timely submitted proposals. Staff reviewed the proposals, interviewed qualified firms and selected the service provider that best meets the City’s needs.

C. Provider is specially trained, experienced and competent to perform the special services which will be required by this Agreement.

D. Whereas, the City Council authorized the City Manager to execute this agreement on _____.

E. The City and Provider desire to enter into an agreement for _ Vegetation and Debris Management, Water Quality Services for Alameda West Lagoons, upon the terms and conditions herein.

AGREEMENT

NOW, THEREFORE, in consideration of the forgoing, which are incorporated herein by reference, and for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the City and Provider agree as follows:

1. TERM:

The term of this Agreement shall commence on the 1st day of July 2025, and shall terminate on the 30th day of June 2025, unless terminated earlier as set forth herein.

2. SERVICES TO BE PERFORMED:

Provider agrees to do all necessary work at its own cost and expense, to furnish all labor, tools, equipment, materials, except as otherwise specified, and to do all necessary work included in Exhibit A as requested. Provider acknowledges that the work plan included in Exhibit A is tentative and does not commit the City to request Provider to perform all tasks included therein.

3. COMPENSATION TO PROVIDER:

a. By the 7th day of each month, Provider shall submit to the City an invoice for the total amount of work done the previous month. Pricing and accounting of charges are to be according to the fee schedule as set forth in Exhibit B and incorporated herein by this reference. Extra work must be approved in writing by the City Manager or their designee prior to performance and shall be paid on a Time and Material basis as set forth in Exhibit B.

b. Compensation for work done under this Agreement, shall not exceed as follows:

FY XX-XX total compensation shall not exceed \$XX
FY XX-XX total compensation shall not exceed \$XX
FY XX-XX total compensation shall not exceed \$XX
FY XX-XX total compensation shall not exceed \$XX
FY XX-XX total compensation shall not exceed \$XX
Total five-year compensation shall not exceed \$XXX,XXX

Use of contingency shall be for items of work outside the original scope and requires prior written authorization by the City.

4. TIME IS OF THE ESSENCE:

Provider and the City agree that time is of the essence regarding the performance of this Agreement.

5. STANDARD OF CARE:

Provider shall perform all services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California. Provider represents that it is skilled in the professional calling necessary to perform all services contracted for in this Agreement. Provider further represents that all of its employees and subcontractors shall have sufficient skill and experience to perform the duties assigned to them pursuant to and in furtherance this Agreement. Provider further represents that it (and its employees and subcontractors) have all licenses, permits, qualifications, and approvals of whatever nature that are legally required to perform the services (including a City Business License, as needed); and that such licenses and approvals shall be maintained throughout the term of this Agreement. As provided for in the indemnification provisions of this Agreement, Provider shall perform (at its own cost and expense and without reimbursement from the City) any services necessary to correct errors or omissions which are caused by Provider's failure to comply with the standard of care provided for herein. Any employee of the Provider or its sub-providers who is determined by the City to be uncooperative, incompetent, a threat to the adequate or timely completion of any services under this Agreement, or a threat to the safety of persons or property (or any employee who fails or refuses to perform the services in a manner acceptable to the City) shall be promptly removed by the Provider and shall not be re-employed to perform any further services under this Agreement.

6. INDEPENDENT PARTIES:

Provider hereby declares that Provider is engaged as an independent business and Provider agrees to perform the services as an independent contractor. The manner and means of conducting the services and tasks are under the control of Provider except to the extent they are limited by

statute, rule or regulation and the express terms of this Agreement. No civil service status or other right of employment will be acquired by virtue of Provider's services. None of the benefits provided by the City to its employees, including but not limited to unemployment insurance, workers' compensation plans, vacation and sick leave, are available from the City to Provider, its employees or agents. Deductions shall not be made for any state or federal taxes, FICA payments, PERS payments, or other purposes normally associated with an employer-employee relationship from any compensation due to Provider. Payments of the above items, if required, are the responsibility of Provider. Any personnel performing the services under this Agreement on behalf of Provider shall also not be employees of City and shall at all times be under Provider's exclusive direction and control.

7. IMMIGRATION REFORM AND CONTROL ACT (IRCA):

Provider assumes any and all responsibility for verifying the identity and employment authorization of all of its employees performing work hereunder, pursuant to all applicable IRCA or other federal, or state rules and regulations. Provider shall indemnify, defend, and hold the City harmless from and against any loss, damage, liability, costs or expenses arising from any noncompliance of this provision by Provider.

8. NON-DISCRIMINATION:

Consistent with the City's policy and state and federal law that harassment and discrimination are unacceptable conduct, Provider and its employees, contractors, and agents shall not harass or discriminate against any job applicant, City employee, or any other person on the basis of any kind of any statutorily (federal, state or local) protected class, including but not limited to: race, religious creed, color, national origin, ancestry, disability (both mental and physical) including HIV and AIDS, medical condition (e.g. cancer), genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, pregnancy, political affiliation, military and veteran status or legitimate union activities. Such non-discrimination shall include but not be limited to all activities related to initial employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff, or termination. Provider agrees that any violation of this provision shall constitute a material breach of this Agreement.

9. HOLD HARMLESS:

a. To the fullest extent permitted by law, Provider shall indemnify, defend (with counsel acceptable to the City) and hold harmless the City, its City Council, boards, commissions, officials, employees, agents and volunteers ("Indemnitees") from and against any and all loss, damages, liability, obligations, claims, suits, judgments, costs and expenses whatsoever, including reasonable attorney's fees and costs of litigation ("Claims"), arising from or in any manner connected to Provider's performance of its obligations under this Agreement or out of the operations conducted by Provider even if the City is found to have been negligent. If the Claims filed against Indemnitees allege negligence, recklessness or willful misconduct on the part of Provider, Provider shall have no right of reimbursement against Indemnitees for the costs of defense even if negligence, recklessness or willful misconduct is not found on the part of Provider. Provider shall not have any obligations to indemnify Indemnitees if the loss or damage is found to have resulted solely from the negligence or the willful misconduct of the City. The defense and

indemnification obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.

b. As to Claims for professional liability only, Provider's obligation to defend Indemnitees (as set forth above) is limited as provided in California Civil Code Section 2782.8.

c. Provider's obligation to indemnify, defend and hold harmless Indemnitees shall expressly survive the expiration or early termination of this Agreement.

10. INSURANCE:

a. On or before the commencement of the terms of this Agreement, Provider shall furnish the City's Risk Manager with certificates showing the type, amount, class of operations covered, effective dates and dates of expiration of insurance coverage in compliance with Sections 10.b. (1) through (3). The Certificate Holder should be The City of Alameda, 2263 Santa Clara, Ave., Alameda, CA 94501. Such certificates, which do not limit Provider's indemnification, shall also contain substantially the following statement:

"Should any of the above insurance covered by this certificate be canceled or coverage reduced before the expiration date thereof, the insurer affording coverage shall provide thirty (30) days' advance written notice to the City of Alameda. Attention: Risk Manager."

Provider shall maintain in force at all times during the performance of this Agreement all appropriate coverage of insurance required by this Agreement with an insurance company licensed to offer insurance business in the State of California with a current A.M. Best's rating of no less than A:VII or Standard & Poor's Rating (if rated) of at least BBB unless otherwise acceptable to the City. Provider shall deliver updated insurance certificates to the City at the address described in Section 17.f. prior to the expiration of the existing insurance certificate for the duration of the term of Agreement. Endorsements naming the City, its City Council, boards, commissions, officials, employees, agents, and volunteers as additional insured shall be submitted with the insurance certificates.

Provider Initials

b. COVERAGE REQUIREMENTS:

Provider shall maintain insurance coverage and limits at least as broad as:

(1) Workers' Compensation:

Statutory coverage as required by the State of California, as well as a Waiver of Subrogation (Rights of Recovery) endorsement.

(2) Liability:

Commercial general liability coverage in the following minimum limits:

Bodily Injury:	\$1,000,000 each occurrence
	\$2,000,000 aggregate - all other

Property Damage: \$1,000,000 each occurrence
 \$2,000,000 aggregate

If submitted, combined single limit policy with per occurrence limits in the amounts of \$2,000,000 and aggregate limits in the amounts of \$4,000,000 will be considered equivalent to the required minimum limits shown above. Provider shall also submit declarations and policy endorsements pages. Additional Insured Endorsement naming the City, its City Council, boards, commissions, officials, employees, agents, and volunteers is required. The Additional Insured Endorsement shall include primary and non-contributory coverage at least as broad as the CG 2010.

(3) Automotive:

Comprehensive automobile liability coverage (any auto) in the following minimum limits:

Bodily injury: \$1,000,000 each occurrence
Property Damage: \$1,000,000 each occurrence

or

Combined Single Limit: \$2,000,000 each occurrence

Additional Insured Endorsement naming the City, its City Council, boards, commissions, officials, employees, agents, and volunteers is required.

As to commercial general liability and automobile liability insurance, such insurance will provide that it constitutes primary insurance with respect to claims insured by such policy, and, except with respect to limits, that insurance applies separately to each insured against whom claim is made or suit is brought. Such insurance is not additional to or contributing with any other insurance carried by or for the benefit of the City.

c. SUBROGATION WAIVER:

Provider hereby agrees to waive rights of subrogation that any insurer of Provider may acquire from Provider by virtue of the payment of any loss. Provider agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether the City has received a waiver of subrogation endorsement from the insurer. The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of the City for all work performed by Provider, its employees, agents and subcontractors.

d. FAILURE TO SECURE:

If Provider at any time during the term hereof should fail to secure or maintain the foregoing insurance, the City shall be permitted to obtain such insurance in Provider's name or as an agent of Provider and shall be compensated by Provider for the costs of the insurance premiums at the maximum rate permitted by law and computed from the date written notice is received that the premiums have not been paid.

e. ADDITIONAL INSURED(S):

The City, its City Council, boards, commissions, officials, employees, agents, and volunteers shall be named as additional insured(s) under all insurance coverages, except workers' compensation and professional liability insurance. The naming of an additional insured shall not affect any recovery to which such additional insured would be entitled under this policy if not named as such additional insured. An additional insured named herein shall not be held liable for any premium, deductible portion of any loss, or expense of any nature on this policy or any extension thereof. Any other insurance held by an additional insured shall not be required to contribute anything toward any loss or expense covered by the insurance provided by this policy. Additional Insured coverage under Provider's policy shall be primary and non-contributory and will not seek contribution from the City's insurance or self-insurance. Any available insurance proceeds broader than or in excess of the specified minimum insurance coverage requirements and/or limits shall be available to the additional insured(s).

f. SUFFICIENCY OF INSURANCE:

The insurance limits required by the City are not represented as being sufficient to protect Provider. Provider is advised to consult Provider's insurance broker to determine adequate coverage for Provider. The coverage and limits shall be (1) the minimum coverage and limits specified in this Agreement; or (2) the broader coverage and maximum limits of the coverage carried by or available to Provider; whichever is greater.

g. EXCESS OR UMBRELLA LIABILITY:

If any Excess or Umbrella Liability policies are used to meet the limits of liability required by this Agreement, then said policies shall be true "following form" of the underlying policy coverage, terms, conditions, and provisions and shall meet all of the insurance requirements stated in this Agreement, including but not limited to, the additional insured, SIR, and primary insurance requirements stated therein. No insurance policies maintained by the indemnified parties or Additional Insureds, whether primary or excess, and which also apply to a loss covered hereunder, shall be called upon to contribute to a loss until all the primary and excess liability policies carried by or available to the Provider are exhausted. **If a Provider is using an Excess Liability policy to supplement any insurance coverage required by this Agreement, they must submit the Excess Liability policy in full.**

11. CONFLICT OF INTEREST:

Provider warrants that it is not a conflict of interest for Provider to perform the services required by this Agreement. Provider may be required to fill out a conflict of interest form if the services provided under this Agreement require Provider to make certain governmental decisions or serve in a staff capacity as defined in Title 2, Division 6, Section 18700 of the California Code of Regulations.

12. PROHIBITION AGAINST TRANSFERS:

a. Provider shall not assign, sublease, hypothecate, or transfer this Agreement, or any interest therein, directly or indirectly, by operation of law or otherwise, without prior written consent of the City Manager. Provider shall submit a written request for consent to transfer to the City Manager at least thirty (30) days in advance of the desired transfer. The City Manager or their designee may consent or reject such request in their sole and absolute discretion. Any attempt

to do so without said consent shall be null and void, and any assignee, sublessee, hypothecate or transferee shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer. However, claims for money against the City under this Agreement may be assigned by Provider to a bank, trust company or other financial institution without prior written consent.

b. The sale, assignment, transfer or other disposition of any of the issued and outstanding capital stock, membership interest, partnership interest, or the equivalent, which shall result in changing the control of Provider, shall be construed as an assignment of this Agreement. Control means fifty percent or more of the voting power of Provider.

13. APPROVAL OF SUB-PROVIDERS:

a. Only those persons and/or businesses whose names and resumés are attached to this Agreement shall be used in the performance of this Agreement. However, if after the start of this Agreement, Provider wishes to use sub-providers, at no additional costs to the City, then Provider shall submit a written request for consent to add sub-providers including the names of the sub-providers and the reasons for the request to the City Manager at least five (5) days in advance. The City Manager may consent or reject such requests in their sole and absolute discretion.

b. Each sub-provider shall be required to furnish proof of workers' compensation insurance and shall also be required to carry general, automobile and professional liability insurance (as applicable) in reasonable conformity to the insurance carried by Provider.

c. In addition, any tasks or services performed by sub-providers shall be subject to each provision of this Agreement. Provider shall include the following language in their agreement with any sub-provider: "Sub-providers hired by Provider agree to be bound to Provider and the City in the same manner and to the same extent as Provider is bound to the City."

d. The requirements in this Section 13 shall not apply to persons who are merely providing materials, supplies, data or information that Provider then analyzes and incorporates into its work product.

14. PERMITS AND LICENSES:

Provider, at its sole expense, shall obtain and maintain during the term of this Agreement, all appropriate permits, certificates and licenses, including a City business license that may be required in connection with the performance of the services and tasks hereunder.

15. REPORTS:

a. Each and every report, draft, work product, map, record and other document produced, prepared or caused to be prepared by Provider pursuant to or in connection with this Agreement shall be the exclusive property of the City.

b. No report, information or other data given to or prepared or assembled by Provider pursuant to this Agreement shall be made available to any individual or organization by Provider without prior approval of the City Manager or their designee.

c. Provider shall, at such time and in such form as City Manager or their designee may

require, furnish reports concerning the status of services and tasks required under this Agreement.

16. RECORDS:

a. Generally, the City has the right to conduct audits of Provider's financial, performance and compliance records maintained in connection with Contractor's operations and services performed under the Agreement. In the event of such audit, Contractor agrees to provide the City with reasonable access to Contractor's employees and make all such financial (including annual financial statements signed by an independent CPA), performance and compliance records available to the City. City agrees to provide Contractor an opportunity to discuss and respond to any findings before a final audit report is filed.

b. Provider shall maintain complete and accurate records with respect to the services, tasks, work, documents and data in sufficient detail to permit an evaluation of Provider's performance under the Agreement, as well as maintain books and records related to sales, costs, expenses, receipts and other such information required by the City that relate to the performance of the services and tasks under this Agreement (collectively the "**Records**").

c. All Records shall be maintained in accordance with generally accepted accounting principles and shall be clearly identified and readily accessible. Provider shall provide free access to the Records to the representatives of the City or its designees during regular business hours upon reasonable prior notice. The City has the right to examine and audit the Records, and to make copies or transcripts therefrom as necessary, and to allow inspection of all proceedings and activities related to this Agreement. Such Records, together with supporting documents, shall be kept separate from other documents and records and shall be maintained by Provider for a period of three (3) years after receipt of final payment.

d. If supplemental examination or audit of the Records is necessary due to concerns raised by the City's preliminary examination or audit of records, and the City's supplemental examination or audit of the records discloses a failure to adhere to appropriate internal financial controls, or other breach of this Agreement or failure to act in good faith, then Provider shall reimburse the City for all reasonable costs and expenses associated with the supplemental examination or audit.

17. NOTICES:

a. All notices shall be in writing and delivered: (i) by hand; or (ii) sent by registered, express, or certified mail, with return receipt requested or with delivery confirmation requested from the U.S. postal service; or (iii) sent by overnight or same day courier service at the party's respective address listed in this Section.

b. Each notice shall be deemed to have been received on the earlier to occur of: (x) actual delivery or the date on which delivery is refused; or (y) three (3) days after notice is deposited in the U.S. mail or with a courier service in the manner described above (Sundays and City holidays excepted).

c. Either party may, at any time, change its notice address (other than to a post office box address) by giving the other party three (3) days prior written notice of the new address.

d. All notices, demands, requests, or approvals from Provider to the City shall be addressed to the City at:

City of Alameda
[Department]
[Address]
Alameda, CA 94501
ATTENTION: [Title]
Ph: (510) [xxx-xxxx]

e. All notices, demands, requests, or approvals from the City to Provider shall be addressed to Provider at:

[Provider Name]
[Department]
[Address]
[City, State, zip]
ATTENTION: [Title]
Ph: (xxx) [xxx-xxxx]

f. All updated insurance certificates from Provider to the City shall be addressed to the City at:

City of Alameda
[Department]
[Address]
Alameda, CA 94501
ATTENTION: [Name/Title]
Ph: (510) [xxx-xxxx] / Email

18. SAFETY:

a. Provider will be solely and completely responsible for conditions of all vehicles owned or operated by Provider, including the safety of all persons and property during performance of the services and tasks under this Agreement. This requirement will apply continuously and not be limited to normal working hours. In addition, Provider will comply with all safety provisions in conformance with U.S. Department of Labor Occupational Safety and Health Act, any equivalent state law, and all other applicable federal, state, county and local laws, ordinances, codes, and any regulations that may be detailed in other parts of the Agreement. Where any of these are in conflict, the more stringent requirements will be followed. Provider's failure to thoroughly familiarize itself with the aforementioned safety provisions will not relieve it from compliance with the obligations and penalties set forth herein.

b. Provider will immediately notify the City within 24 hours of any incident of death, serious personal injury or substantial property damage that occurs in connection with the performance of this Agreement. Provider will promptly submit to the City a written report of all incidents that occur in connection with this Agreement. This report must include the following information: (i) name and address of injured or deceased person(s); (ii) name and address of

Provider's employee(s) involved in the incident; (iii) name and address of Provider's liability insurance carrier; (iv) a detailed description of the incident; and (v) a police report.

19. TERMINATION:

a. In the event Provider fails or refuses to perform any of the provisions hereof at the time and in the manner required hereunder, Provider shall be deemed in default in the performance of this Agreement. If such default is not cured within two (2) business days after receipt by Provider from the City of written notice of default, specifying the nature of such default and the steps necessary to cure such default, the City may thereafter immediately terminate the Agreement forthwith by giving to Provider written notice thereof.

b. The foregoing notwithstanding, the City shall have the option, at its sole discretion and without cause, of terminating this Agreement by giving seven (7) days' prior written notice to Provider as provided herein.

c. Upon termination of this Agreement either for cause or for convenience, each party shall pay to the other party that portion of compensation specified in this Agreement that is earned and unpaid prior to the effective date of termination. The obligation of the parties under this Section 19.c. shall survive the expiration or early termination of this Agreement.

20. ATTORNEYS' FEES:

In the event of any litigation, including administrative proceedings, relating to this Agreement, including but not limited to any action or suit by any party, assignee or beneficiary against any other party, beneficiary or assignee, to enforce, interpret or seek relief from any provision or obligation arising out of this Agreement, the parties and litigants shall bear their own attorney's fees and costs. No party or litigant shall be entitled to recover any attorneys' fees or costs from any other party or litigant, regardless of which party or litigant might prevail.

21. HEALTH AND SAFETY REQUIREMENTS.

Provider acknowledges that the City shall have the right to impose, at the City's sole discretion, requirements that it deems are necessary to protect the health and safety of the City employees, residents, and visitors. Provider agrees to comply with all such requirements, including, but not limited to, mandatory vaccinations, the use of personal protective equipment (e.g. masks), physical distancing, and health screenings. Provider also agrees to make available to the City, at the City's request, records to demonstrate Provider's compliance with this Section.

22. COMPLIANCE WITH ALL APPLICABLE LAWS:

During the term of this Agreement, Provider shall keep fully informed of all existing and future state and federal laws and all municipal ordinances and regulations of the City of Alameda which affect the manner in which the services or tasks are to be performed by Provider, as well as all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. Provider shall comply with all applicable laws, state and federal and all ordinances, rules and regulations enacted or issued by the City. Provider shall defend, indemnify, and hold City (including its officials, directors, officers, employees, and agents) free and harmless from any claim or liability arising out of any failure or alleged failure to comply with such laws and regulations pursuant to the indemnification provisions of this Agreement.

23. CONFLICT OF LAW:

This Agreement shall be interpreted under, and enforced by the laws of the State of California without regard to any choice of law rules which may direct the application of laws of another jurisdiction. The Agreement and obligations of the parties are subject to all valid laws, orders, rules, and regulations of the authorities having jurisdiction over this Agreement (or the successors of those authorities). Any suits brought pursuant to this Agreement shall be filed with the courts of the County of Alameda, State of California.

24. WAIVER:

A waiver by the City of any breach of any term, covenant, or condition contained herein shall not be deemed to be a waiver of any subsequent breach of the same or any other term, covenant, or condition contained herein, whether of the same or a different character.

25. INTEGRATED CONTRACT:

Subject to the language of Section 33, the Recitals and exhibits are a material part of this Agreement and are expressly incorporated herein. This Agreement represents the full and complete understanding of every kind or nature whatsoever between the parties hereto, and all preliminary negotiations and agreements of whatsoever kind or nature are merged herein. No verbal agreement or implied covenant shall be held to vary the provisions hereof. Any modification of this Agreement will be effective only by written execution signed by both the City and Provider.

26. PREVAILING WAGES:

Provider is aware of the requirements of California Labor Code Section 1720, et seq., and 1770, et seq. as well as California Code of Regulations, Title 8, Section 1600, et seq., (“Prevailing Wage Laws”) which require the payment of prevailing wage rates and the performance of other requirements on “public works” and “maintenance” projects. Provider agrees to fully comply with such Prevailing Wage Laws if the services are being performed as part of an applicable “public works” or “maintenance” project as defined by the Prevailing Wage Laws and if the total compensation is \$1,000 or more. City, upon Provider’s request, shall provide Provider with a copy of the prevailing rates of per diem wages in effect at the commencement of this Agreement. Provider shall make copies of the prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the services available to interested parties upon request; and shall post copies at the Provider’s principal place of business and at the project site. Provider shall defend, indemnify, and hold the City (its elected officials, officers, employees, and agents) free and harmless from any claim or liability arising out of any failure or alleged failure to comply with the Prevailing Wage Laws.

27. DEPARTMENT OF INDUSTRIAL RELATIONS COMPLIANCE AND PREVAILING WAGE REQUIREMENTS ON PUBLIC WORKS PROJECTS:

a. For purposes of Sections 27 through 29 of this Agreement, the terms “claim”, “contractor”, “public works project” and “subcontractor” shall have the same meanings set forth in Public Contract Code Section 9204.

b. No contractor or subcontractor may be listed on a bid proposal for a public works project, nor engage in the performance of any public work contract, unless registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5 (with the limited exceptions for certain bids pursuant to Labor code Section 1771.1(a)). Registration instructions may be found at the following website: <https://www.dir.ca.gov/Public-Works/Contractor-Registration.html>

c. All contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner at the following website: <https://www.dir.ca.gov/Public-Works/Certified-Payroll-Reporting.html>

d. Contractor is required to all post job site notices as prescribed by State law. (See 8 Cal. Code Regs, § 16451(d).)

e. In executing this Agreement, Contractor acknowledges and agrees that

f. the work authorized by this Agreement may be subject to compliance monitoring and enforcement by the Department of Industrial Relations.

28. REGISTRATION OF CONTRACTORS:

Before submitting bids for any work authorized by this Agreement, contractors shall be licensed in accordance with the provisions of Chapter 9, Division 3, of the Business and Professions Code of the State of California.

29. PUBLIC CONTRACT CODE SECTION 9204 SUMMARY:

Notwithstanding anything else to the contrary stated in the Information For Bidders (IFB) or other documents associated with this Agreement, all claims, regardless of dollar amount, submitted between January 1, 2017 and January 1, 2027 related to work performed or scheduled to be performed pursuant to this Agreement shall be governed by Public Contract Code Section 9204 and this section. The following provisions and procedures shall apply:

a. Contractor shall submit each Claim (whether for a time extension, payment for money or damages) in writing and in compliance with Public Contract Code Section 9204. Contractor must include reasonable documentation to support each claim.

b. Upon receipt of a claim, the City shall conduct a reasonable review and respond in writing within 45 days of receipt and shall identify in a written statement what portions of the claim are disputed and undisputed. Undisputed portions of the claim shall be process and paid within 60 days of the written statement. Undisputed amounts not paid in a timely manner shall bear interest at 7% per annum. The City and Contractor may mutually agree to extend the 45 day response time.

c. If the City needs approval from the City Council to provide a written statement, the 45 days may be extended to 3 days following the next duly noticed public meeting pursuant to Public Contract Code Section 9204(d)(1)(C).

d. If the City fails to timely respond to a claim or if Contractor disputes the City's response, Contractor may submit a written demand for an informal meet and confer conference with the City to settle the issues in dispute. The demand must be sent via registered or certified mail, return receipt requested. Upon receipt, the City shall schedule the conference within 30 days.

e. Within 10 business days following the informal meet and confer conference, the City shall submit to Contractor a written statement describing any issues remaining in dispute and that portion which is undisputed. Undisputed portions of the claim shall be processed and paid within 60 days of the written statement. Undisputed amounts not paid in a timely manner shall bear interest at 7% per annum. The issues remaining in dispute shall be submitted to non-binding mediation. If the City and Contractor mutually agree on a mediator, each party shall pay equal portions of all associated costs. If within 10 business days, the City and Contractor cannot agree on a mediator, each party shall select a mediator (paying all costs associated with their selected mediator), and those mediators shall select a qualified neutral third party to mediate the disputed issues. The City and Contractor shall pay equal portions of all associated costs of such third party mediator.

f. Unless otherwise agreed by the City and Contractor, any mediation conducted hereunder shall excuse any further obligation under Public Contract Code Section 20104.4 to mediate after litigation has commenced.

g. The City reserves all rights and remedies that it has pursuant to this Agreement, any associated plans and specifications, or at law or in equity which are not in conflict with Public Contract Code 9204.

30. CAPTIONS:

The captions in this Agreement are for convenience only, are not a part of the Agreement and in no way affect, limit or amplify the terms or provisions of this Agreement.

31. COUNTERPARTS:

This Agreement may be executed in any number of counterparts (including by fax, PDF, DocuSign, or other electronic means), each of which shall be deemed an original, but all of which shall constitute one and the same instrument.

32. SIGNATORY:

By signing this Agreement, signatory warrants and represents that they executed this Agreement in their authorized capacity and that by their signature on this Agreement, they or the entity upon behalf of which they acted, executed this Agreement.

33. CONTROLLING AGREEMENT:

In the event of a conflict between the terms and conditions of this Agreement (as amended, supplemented, restated or otherwise modified from time to time) and any other terms and conditions wherever contained, including, without limitation, terms and conditions included within exhibits, the terms and conditions of this Agreement shall control and be primary.

34. [NONDISCRIMINATION – FEDERAL REQUIREMENTS:

a. Provider certifies and agrees that it will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry, sex, age, or condition or physical or mental handicap (as defined in 41 C.F.R. Section 60-741, et seq.), in accordance with requirement of state or federal law. Provider shall take affirmative action to ensure that qualified applicants are employed and that employees are treated during employment without regard to race, color, religion, national origin, ancestry, sex, age, or condition of physical or mental handicap in accordance with requirements of state and federal law. Such shall include, but not be limited to, the following:

A. Employment upgrading, demotion, transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation.

B. Selection for training, including interns and apprentices.

(i) Provider agrees to post in conspicuous places in each of Provider's facilities providing services hereunder, available and open to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

(ii) Provider shall, in all solicitations or advertisements for employees placed by or on behalf of Provider, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, ancestry, sex, age, or condition of physical or mental handicap, in accordance with requirements of state and federal law.

(iii) Provider shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding a notice advising the labor union or workers' representative of Provider's commitments under this paragraph.

(iv) Provider certifies and agrees that it will deal with its subcontractors, bidders, or vendors without regard to race, color, religion, national origin, ancestry, sex, age, or condition of physical or mental handicap, in accordance with requirement of state and federal law.

(v) In accordance with applicable state and federal law, Provider shall allow duly authorized county, state and federal representatives access to its employment records during regular business hours in order to verify compliance with the anti-discrimination provisions of this paragraph. Provider shall provide such other information and records as such representatives may require in order to verify compliance with the anti-discrimination provisions of this paragraph.

b. If the City finds that any of the provisions of this paragraph have been violated, the same shall constitute a material breach of Agreement upon which the City may determine to cancel, terminate, or suspend this Agreement. The City reserves the right to determine independently that the anti-discrimination provisions of this Agreement have been violated. In addition, a determination by the California Fair Employment Practices Commission or the Federal Equal Employment Opportunity Commission that Provider has violated state and federal anti-discrimination laws shall constitute a finding by the City that Provider has violated the anti-discrimination provisions of Agreement.

c. The parties agree that in the event Provider violates any of the anti-discrimination provisions of this paragraph, the City shall be entitled, at its option, to the sum of \$500.00 pursuant to California Civil Code Section 1671 as liquidated damages in lieu of canceling, terminating, or suspending this Agreement.

d. Provider hereby agrees that it will comply with Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. Section 794), all requirements imposed by the applicable regulations, and all guidelines and interpretations issued pursuant thereto, to the end that no qualified handicapped person shall, on the basis of handicap, be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any program or activity of Provider receiving Federal Financial Assistance. In addition, Provider shall comply with the Uniform Federal Accessibility Standards, and Provider, Engineer, or Architect responsible for any design, construction or alteration shall certify compliance with those Standards.

e. Provider's attention is directed to laws, including but not limited to:

A. CIVIL RIGHTS/EQUAL OPPORTUNITY

(i) Civil Rights Act of 1964. Under Title VII of the Civil Rights Act of 1964, no person shall, on the grounds of race, sex, religion, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance.

(ii) Section 109 of the Housing and Community Development Act of 1974. No person in the United States shall, on the grounds of race, color, national origin, or sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity funded in whole or in part with funds made available under this title.

(iii) Section 109 of the Act further provides that any prohibition against discrimination on the basis of age under the Age Discrimination Act of 1975 (42 U.S.C. 6101 et seq.) or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) shall also apply to any program or activity funded in whole or in part with funds made available pursuant to the Act.

B. PROGRAM ACCESSIBILITY FOR INDIVIDUALS WITH DISABILITIES

This Agreement is subject to laws and regulations concerning the rights of otherwise qualified individuals with handicaps for equal participation in, and benefit from federally assisted programs and activities, including but not limited to:

(i) Americans with Disabilities Act of 1990 (ADA) (28 C.F.R. 35). Title II, Subpart A of the Americans with Disabilities Act of 1990 applies to all publicly funded activities and programs. Provider shall also comply with the public accommodations requirements of Title III of the ADA, as applicable.

(ii) Nondiscrimination on the Basis of Handicap (24 C.F.R. 8). These regulations, which implement Section 504 of the Rehabilitation Act of 1973, as amended, and as cited in Section 109 of the Housing and Community Development Act, apply to all federally assisted activities and programs and are implemented through the regulations at 24 C.F.R. 8.

(iii) Architectural Barrier Act of 1968. Any building or facility, excluding privately owned residential structures, designed, constructed, or altered with federal funds, shall comply with the Uniform Federal Accessibility Standards, 1984 (41 C.F.R. 3) and the Handicapped Accessibility Requirements of the State of California Title 24. The Consultant, Engineer or Architect responsible for such design, construction or alteration shall certify compliance with the above standards.

(iv) In resolving any conflict between the accessibility standards cited in paragraphs (i), (ii) and (iii) above, the more stringent standard shall apply.]

35. [NONDISCRIMINATION – HUD REQUIREMENTS:

a. Provider certifies and agrees that it will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry, sex, age, or condition or physical or mental handicap (as defined in 41 C.F.R. Section 60-741, et seq.), in accordance with requirement of state or federal law. Provider shall take affirmative action to ensure that qualified applicants are employed and that employees are treated during employment without regard to race, color, religion, national origin, ancestry, sex, age, or condition of physical or mental handicap in accordance with requirements of state and federal law. Such shall include, but not be limited to, the following:

A. Employment upgrading, demotion, transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation.

B. Selection for training, including interns and apprentices.

(i) Provider agrees to post in conspicuous places in each of Provider's facilities providing services hereunder, available and open to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

(ii) Provider shall, in all solicitations or advertisements for employees placed by or on behalf of Provider, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, ancestry, sex, age, or condition of physical or mental handicap, in accordance with requirements of state and federal law.

(iii) Provider shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding a notice advising the labor union or workers' representative of Provider's commitments under this paragraph.

(iv) Provider certifies and agrees that it will deal with its subcontractors, bidders, or vendors without regard to race, color, religion, national origin, ancestry, sex, age, or condition of physical or mental handicap, in accordance with requirement of state and federal law.

(v) In accordance with applicable state and federal law, Provider shall allow duly authorized county, state and federal representatives access to its employment records during regular business hours in order to verify compliance with the anti-discrimination provisions of this paragraph. Provider shall provide such other information and records as such representatives may require in order to verify compliance with the anti-discrimination provisions of this paragraph.

b. If the City finds that any of the provisions of this paragraph have been violated, the same shall constitute a material breach of Agreement upon which the City may determine to cancel, terminate, or suspend this Agreement. The City reserves the right to determine independently that the anti-discrimination provisions of this Agreement have been violated. In addition, a determination by the California Fair Employment Practices Commission or the Federal Equal Employment Opportunity Commission that Provider has violated state and federal anti-discrimination laws shall constitute a finding by the City that Provider has violated the anti-discrimination provisions of this Agreement.

c. The parties agree that in the event Provider violates any of the anti-discrimination provisions of this paragraph, the City shall be entitled, at its option, to the sum of \$500.00 pursuant to California Civil Code Section 1671 as liquidated damages in lieu of canceling, terminating, or suspending this Agreement.

d. Provider hereby agrees that it will comply with Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. Section 794), all requirements imposed by the applicable regulations, and all guidelines and interpretations issued pursuant thereto, to the end that no qualified handicapped person shall, on the basis of handicap, be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any program or activity of Provider receiving Federal Financial Assistance. In addition, Provider shall comply with the Uniform Federal Accessibility Standards, and Provider, Engineer, or Architect responsible for any design, construction or alteration shall certify compliance with those Standards.

e. Provider's attention is directed to laws, including but not limited to:

A. CIVIL RIGHTS/EQUAL OPPORTUNITY

(i) Civil Rights Act of 1964. Under Title VII of the Civil Rights Act of 1964, no person shall, on the grounds of race, sex, religion, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance.

(ii) Section 109 of the Housing and Community Development Act of 1974. No person in the United States shall, on the grounds of race, color, national origin, or sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity funded in whole or in part with funds made available under this title.

(iii) Section 109 of the Act further provides that any prohibition against discrimination on the basis of age under the Age Discrimination Act of 1975 (42 U.S.C. 6101 et seq.) or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) shall also apply to any program or activity funded in whole or in part with funds made available pursuant to the Act.

B. EMPLOYMENT AND CONTRACTING OPPORTUNITIES

(i) Section 3. The work to be performed under this Agreement is on a project assisted under a program providing direct Federal financial assistance from the Department of Housing and Urban Development Department and is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u. Section 3 requires that to the greatest extent feasible, opportunities for training and employment be given to lower income residents of the area of the Section 3 covered project, and contracts for work in connection with the project be awarded to business concerns which are located in, or owned in substantial part by persons residing in the area of the Section 3 covered project.

(ii) The parties to this Agreement will comply with the provisions of said Section 3 and the regulations issued pursuant thereto by the Secretary of the Housing and Urban Development set forth in 24 Part C.F.R. 135, and all applicable rules and orders of the Department issued thereunder prior to the execution of this Agreement. The parties to this Agreement certify and agree that they are under no contractual or other disability which would prevent them from complying with these requirements.

(iii) Provider will send to each labor organization or representative of workers with which it has a collective bargaining agreement or other contract or understanding, if any, a notice advising the said labor organization or workers' representative of its commitments under this Section 3 clause and shall post copies of the notice in conspicuous places available to employees and applicants for employment or training.

(iv) Provider will include this Section 3 clause in every subcontract for work in connection with the project and will, at the direction of the applicant for or recipient of Federal financial assistance, take appropriate action pursuant to the subcontract upon a finding that the subcontractor is in violation of regulations issued by the Secretary of Housing and Urban Development, 24 C.F.R. Part 135. Provider will not subcontract with any subcontractor where it has notice or knowledge that the latter has been found in violation of regulations under 24 C.F.R. Part 135 and will not let any subcontract unless the subcontractor has first provided it with a preliminary statement of ability to comply with the requirements of these regulations.

(v) Compliance with the provisions of Section 3, the regulations set forth in 24 C.F.R. Part 135, and all applicable rules and orders of the Department issued thereunder prior to the execution of the Agreement, is a condition of the Federal financial assistance provided

to the project, binding upon the applicant or recipient, its contractors and subcontractors, its successors, and assigns to those sanctions specified by the grant or loan agreement or contract through which Federal assistance is provided, and to such sanctions as are specified by 24 C.F.R. Part 135.

C. PROGRAM ACCESSIBILITY FOR INDIVIDUALS WITH DISABILITIES

This Agreement is subject to laws and regulations concerning the rights of otherwise qualified individuals with handicaps for equal participation in, and benefit from federally assisted programs and activities including but not limited to:

(i) Americans with Disabilities Act of 1990 (ADA) (28 C.F.R. 35). Title II, Subpart A of the Americans with Disabilities Act of 1990 applies to all publicly funded activities and programs. Provider shall also comply with the public accommodations requirements of Title III of the ADA, as applicable.

(ii) Nondiscrimination on the Basis of Handicap (24 C.F.R. 8). These regulations, which implement Section 504 of the Rehabilitation Act of 1973, as amended, and as cited in Section 109 of the Housing and Community Development Act, apply to all federally assisted activities and programs and are implemented through the regulations at 24 C.F.R. 8.

(iii) Architectural Barrier Act of 1968. Any building or facility, excluding privately owned residential structures, designed, constructed, or altered with federal funds, shall comply with the Uniform Federal Accessibility Standards, 1984 (41 C.F.R. 3) and the Handicapped Accessibility Requirements of the State of California Title 24. The Consultant, Engineer or Architect responsible for such design, construction or alteration shall certify compliance with the above standards.

(iv) In resolving any conflict between the accessibility standards cited in paragraphs (i), (ii) and (iii) above, the more stringent standard shall apply.]

36. RESTRICTIONS ON LOBBYING – FEDERAL REQUIREMENT:

This Agreement is subject to 24 C.F.R. 87 which prohibits the payment of Federal funds to any person for influencing or attempting to influence, any public officer or employee in connection with the award, making, entering into, extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or agreement.]

37. MULCH PROCUREMENT REQUIREMENTS

Providers of landscaping maintenance, renovation, and construction shall:

a. Use compost and SB 1383 eligible mulch, as practicable, produced from recovered organic waste, for all landscaping renovations, construction, or maintenance performed for the City, whenever available, and capable of meeting quality standards and criteria specified. SB 1383 eligible mulch used for land application shall comply with [14 CCR, Division 7, Chapter 12, Article](#)

[12](#) and must meet or exceed the physical contamination, maximum metal concentration and pathogen density standards specified in [14 CCR Section 17852\(a\)\(24.5\)\(A\)\(1\) through \(3\)](#).

b. Maintain the following records for compost and SB 1383 eligible mulch and submit to the City upon request:

- (1) General description of how and where the product was used and applied;
- (2) Source of product, including name, physical location, and contact information for each entity, operation, or facility from whom the compost and/or SB 1383 eligible mulch were procured;
- (3) Type of product
- (4) Quantity of each product; and,

Invoice or other record demonstrating purchase or procurement.]

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, the parties have each caused this Agreement to be duly executed on its behalf as of the Effective Date.

COMPANY
a (California corporation, LP, LLC,
GP, sole proprietor/individual)

CITY OF ALAMEDA
a municipal corporation

NAME
TITLE

City Manager

NAME
TITLE

RECOMMENDED FOR APPROVAL

[DEPARTMENT HEAD NAME]
[DEPARTMENT HEAD TITLE]

APPROVED AS TO FORM:
City Attorney

[NAME]
[Assistant] City Attorney

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED - OWNERS, LESSEES or PROVIDERS FORM B

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization:

City of Alameda
2263 Santa Clara Ave
Alameda, CA 94501

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of your ongoing operations performed for that insured.

REF:

The City of Alameda, its City Council, boards and commissions, officers & employees are additional insured for work done on their behalf by the named insured.

PRIMARY INSURANCE:

IT IS UNDERSTOOD AND AGREED THAT THIS INSURANCE IS PRIMARY AND ANY OTHER INSURANCE MAINTAINED BY THE ADDITIONAL INSURED SHALL BE EXCESS ONLY AND NOT CONTRIBUTING WITH THIS INSURANCE.

SEVERABILITY OF INTEREST:

IT IS AGREED THAT EXCEPT WITH RESPECT TO THE LIMIT OF INSURANCE, THIS COVERAGE SHALL APPLY AS IF EACH ADDITIONAL INSURED WERE THE ONLY INSURED AND SEPARATELY TO EACH INSURED AGAINST WHOM CLAIM IS MADE OR SUIT IS BROUGHT.

WAIVER OF SUBROGATION:

IT IS UNDERSTOOD AND AGREED THAT THE COMPANY WAIVES THE RIGHT OF SUBROGATION AGAINST THE ABOVE ADDITIONAL INSURED (S), BUT ONLY AS RESPECTS THE JOB OR PREMISES DESCRIBED IN THE CERTIFICATE ATTACHED HERETO.

NOTICE OF CANCELLATION:

IT IS UNDERSTOOD AND AGREED THAT IN THE EVENT OF CANCELLATION OF THE POLICY FOR ANY REASON OTHER THAN NON-PAYMENT OF PREMIUM, 30 DAYS WRITTEN NOTICE WILL BE SENT TO THE CERTIFICATE HOLDER BY MAIL. IN THE EVENT THE POLICY IS CANCELED FOR NON-PAYMENT OF PREMIUM, 10 DAYS WRITTEN NOTICE WILL BE SENT TO THE ABOVE.

POLICY NUMBER:

COMMERCIAL AUTO
CG 20 48 02 99

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED INSURED

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM
GARAGE COVERAGE FORM
MOTOR CARRIER COVERAGE FORM
TRUCKERS COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by this endorsement.

This endorsement identifies person(s) or organization(s) who are "insureds" under the Who Is An Insured Provisions of the Coverage Form. This endorsement does not alter coverage provided in the Coverage Form.

This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

Endorsement Effective:	Countersigned By:
Named Insured:	(Authorized Representative)

SCHEDULE
SAMPLE
Name of Person or Organization:
City of Alameda
2263 Santa Clara Ave
Alameda, CA 94501

WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of your ongoing operations performed for that insured.

REF: _____

The City of Alameda, its City Council, boards and commissions, officers, employees and volunteers are additional insured for work done on their behalf by the named insured.

NOTICE OF CANCELLATION:

IT IS UNDERSTOOD AND AGREED THAT IN THE EVENT OF CANCELLATION OF THE POLICY FOR ANY REASON OTHER THAN NON-PAYMENT OF PREMIUM, 30 DAYS WRITTEN NOTICE WILL BE SENT TO THE CERTIFICATE HOLDER BY MAIL. IN THE EVENT THE POLICY IS CANCELED FOR NON-PAYMENT OF PREMIUM, 10 DAYS WRITTEN NOTICE WILL BE SENT TO THE ABOVE.

EXHIBIT D. City of Alameda Integrated Pest Management Policy

City of Alameda Contractor Verification Form
Implementation of City of Alameda Integrated Pest Management Policy

The City of Alameda (City) is mandated to:

- (a) Minimize its reliance on pesticides that threaten water quality, and
- (b) Require the effective use of Integrated Pest Management (IPM) in all municipal operations and on all municipal property.

To ensure compliance with this mandate, all City operations need to verifiably implement the practices and policies described in the City's IPM Policy adopted June 15, 2010. A copy of this IPM Policy is included with this form. The implementation of the IPM Policy is applicable to all municipal contractors that provide landscaping, structural pest control, or other pest management services in support of City operations and/or on municipal property.

The undersigning parties acknowledge that all elements of the City's IPM Policy will be implemented throughout the period of contractual services provided to City operations and on municipal property. Specific actions to document this performance shall include:

- ☐ Pest Management Contractor shall provide to City project manager for pre-approval the Pest Management Considerations Checklist.
- ☐ Pest Management Contractor shall avoid the use of the following pesticides that threaten water quality, human health and the environment:
 - Acute Toxicity Category I chemicals as identified by the Environmental Protection Agency (EPA)
 - Organophosphate pesticides (e.g., those containing Diazinon, chlorpyrifos or malathion)
 - Pyrethroids (bifenthrin, cyfluthrin, beta-cyfluthrin, cypermethrin, deltamethrin, esfenvalerate, lambda-cyhalothrin, permethrin, and tralomethrin), carbamates (e.g., carbaryl), and fipronil
 - Copper-based pesticides unless their use is judicious, other approaches and techniques have been considered and the threat of impact to water quality is prevented.
- ☐ Pest Management Contractor shall provide to the City's project manager an annual Report of all pesticide usage in support of City operations including product name and manufacturer, active ingredient(s), target pest(s), the total amounts used and reasons for any increase in use of any pesticide.
- ☐ If the Contractor's on-site personnel are currently IPM certified through either the EcoWise or GreenPro programs, or through another program, the contractor shall provide written evidence of any certifications to the City's project manager.

City Departmental Representative

Contractor Representative

Print Name

Print Name

Date

Date

City Department

City Contractor